A Framework for Library Space and the Satisfaction of Academic Library Users Need

Nur Aina Aliaa Ahmad Latfi

Faculty of Information Management
Universiti Teknologi MARA UiTM
Puncak Perdana Campus,
UiTM Selangor, Malaysia

ABSTRACT
In the recent year academic library nowadays are towards focusing in designing the library space as to increase back the number of gate count and circulation activities. Knowing the importance of various spaces that can meet the need of users, have made this initiative becomes the common goal of many academic libraries. Consideration on the entire planning are really needed in order to support the learning and teaching activities as to meet their users need or behavior of each type of spaces that are required. To know the need of space that are required by many academic users four type of space are been discuss in this paper in order to well known about the major factor that affect the use of spaces and also their need towards each spaces. Basically, the purpose of this paper is to propose the framework on the four types of spaces that focus on the collaboration space, individual space, interaction space and the community space which it can give big impact on the satisfaction of users need. Inside this paper also there is a section on the literature review that gives information to the reader regarding the library space itself. The previous study model and framework also been discuss in this paper in order to knows the types of space that regularly been required by the academic library user. Follow by that, the framework are been discuss in detail which focus on user's satisfaction and the four types of space.

Keywords: Academic library, Collaboration space, Individual space, Interaction space, Community space

1.0 INTRODUCTION

Library is one of the places that store valuable information whether in the form of printed or electronic format. The library also been consider as the first place where the explicit knowledge been documented and stored in order to be retrieve by the users as for supporting material in the process of learning or teaching activities. In a simple words library is the cargo which stored and organize the various collection of material either printed or electronic that are available to be retrieve by the user in getting information regarding their subject interest. Support the definition at the above the library is the place which stored collection of books and materials that are in form of printed or non-printed which been maintain and organize accordingly in order to support and give information for the activities such as reading, consultation, teaching, study and research use (Reitz, 2016). Usually, libraries have many types that are well known by the many users which are national library, academic library, special library and also public library. Each of the libraries has their own goal and function in order to support the need of their users.

The material available inside the libraries also are basically depends on the entire users need and interest. Looking to the definition and the various type of library it can be approve that the availability of this organization around the world are truly importance to all people as it act as the
storehouse which manage and maintain the explicit knowledge of the past and present information around the world.

By focus on the academic libraries that are available in the higher education for example colleges and universities this organization concern in providing their entire users useful information which can support them in the teaching and learning activities which been use as reference material. Generally, this libraries support the higher institution with suitable material that are related to the courses offer by the universities or colleges. The existence of this academic library really importance to entire users because it been considered as place for retrieving information for supporting their task and assignment on the subject or courses that have been taken. It been stated by the author that academic library been define as the university heart because the storage of material or collection inside the library give the meaningful ways for the users in retrieving the information needed (Brophy, 2005). There is other definition from another author that indicate academic library is a building that are available in the university or postsecondary education which responsible in managing all information in different format which can meet the need of entire users in the campus (Reitz, 2016). As to know that the users of the academic library are from the university management, alumni, undergraduate student, postgraduate student, lecturer and research staff which all of them required the useful information or material which can support their learning, teaching and also the research activities in order to complete their task.

In this era of technology consideration on planning the library in a meaningful ways is very importance this is because to attract or grab users attention in fully utilize the availability of library. An effective library can be meaningful by having a balance on the space planning and supported with the technology that can make the users fill comfortable in utilizing the required spaces on each of the activities that they will performed. It is needed that the useful ways in planning the library is by understanding the users need and want toward the library design and the collection or equipment that they need for each of the activities. The reason why need to know the user preference is because to give meaningful space and equipment for the user and indirectly can create the satisfaction of what their wants or required.

1.1 Problem statement

As been understood before towards brief explanation on the academic library it can be said that the existence of academic library are truly importance to the entire university users. But in the recent year the advance of technology development where the user can get any material via online application have make the number of users come to use the academic library become decline. It been mention by the author that the availability of internet sources have change the way users retrieve information because they can get any material like books, journals articles and other material electronically and this lead to the decline number of library gate count and circulation activities (Montgomery, 2014). Confirm by the other author the users of academic library nowadays have really depend on the use of readily information when many of the material can be get through the online application or via internet usage (Houlihan, 2005). This author also indicate that increasing number of usage on the electronic material have make the use of printed and reference material are not fully been used by the academic library users which this give big impact on the decline number of circulation activity.

Furthermore, the other reasons why the decline number of gate count and circulation activity been happen is because the factor of space for the users to make their activities inside the library. Small amount of space for the user to do their various activity in the library make the users tend to find other places in doing their work instead of going to the library in using the
service or facilities available. Mention by the author, student become difficulties on finding proper spaces in doing their task whether in a group or individually (Seung & Tae, 2015). The two author also stated that academic library are not properly structured the library space and this indirectly affect the library physical space arrangement. Inappropriate arrangement of the library can give big impact on the crowded space for the user to engage the different type of activities. Even though, the users can find a place for them in doing the different activity either in group or individual but it can affect the performance of their works because they are not getting comfortable places in doing their task effectively (DeClercq & Cranz, 2014).

2.0 LITERATURE REVIEW

2.1 History of academic library space

In the years 1990, first attentions focus on the information common in the academic library take a place. The existence of World Wide Web and the influence of advance information technology (IT) have change the people ways in access the information. Basically, the meaning of information common is more focusing to the physical space (Smith, 2013). Early 2000s, Library and Information Science (LIS) have interested to the topic that touch on the learning commons model. In 2003 the learning common model has been proposed. The existence of learning commons model really gives the academic libraries a new direction in redesign the library. Looking to the brief history of library space it can be said that academic library is very importance towards the entire university people because it stored and preserve the valuable information of the past and present.

2.2 Factor that contribute to the development of effective library space

Many of the academic libraries tend to get funding in improving the library design and also the space of library which include exterior design like landscape, interior design like layout of furniture and equipment, pattern of material, lighting, work flow and even color scheme which this would affect on how the users and staff will work inside the library building (Cohen & Cohen, 1979). Although the academic library been function as an information provider to the higher education such as checking out books, searching database and for reading the printed material but nowadays it has become weaker among the users (Gayton, 2008). The decline also can be seen from the academic construction itself as he stated that 33% of decline in the library building (Stewart, 2011). In the era of 21st century fast development of technology make the academic library nowadays not been fully utilized by their users. Other author indicate that rapid development of information in the internet have shift the process of requiring information recourses for supporting the student task or work which it lead to unfavorable to use the service offer by academic libraries (Saori, Atsushi, & Chieko 2011).

2.3 Need of library design for the physical space

Advancement of technology make the traditional function and role of academic libraries have become obsolete. So, redesigning the libraries can increase back the numbers of gate count and circulation activities (Young & Schottenfeld, 2014). One author found out that users select space for specific reason which the most common factor on the usage of computer that bring the result about 45.5% (Ramsden, 2011). Other thing that needs to be focus on changes in academic libraries nowadays is towards providing access and space for the purpose of learning, teaching and sharing of knowledge activities (Stewart, 2010). The goal of having an effective space in academic libraries is for giving a better place for the academic users and also the
academic libraries staff (Houlihan, 2005). It is required that the library need to provide variety of space which can meet the various activity that will be done by their users. Having a balance space towards the different type of activities that the student engages will attract them to fully utilize the existence of academic libraries.

2.4 Importance of library space

The importance of library space can be seen from the aspect of shifting the focus on increasing the amount volume of shelf in storing the resources to providing the space for users perform their task or activities (Montgomery, 2013). The remaining importance of libraries to the university is physical space can make the users will fully utilize the libraries in spending their time for conducting their works or assignment (Brayant, Matthew & Walton, 2009). Researcher also show the result which 78% of the user need 24 hours study space and this can be said that providing the effective space can make the users become more interest to spend their time in the libraries (Onjennus & Watts, 2015). Not only that, the systematic design of library can contribute to providing the effective space for users and also resources in order to make proper arrangement so that the library can be fully utilized by their users. The excellent library design will portray the agility and adaptability in the use of academic library space (Beard & Dale, 2010). Supporting the suitable space that equipped with the technology like computer network for the purpose of learning activities are very importance to the users (Saori, Atsushi & Chieko, 2011). They indicate that about 80% of libraries provide computer network in order to fulfill users need. The availability of space also make users can even choose the space for doing the individual or even the group work in the libraries suitable with their need and preference activities that will be conducted. The users also need for varieties of space which can suit and indirectly support their different type of learning activities. Furthermore, the use of space also can create the social interaction in sharing or exchanging the knowledge in supporting their learning and knowledge discovery (Fatt & Su, 2016).

3.0 COMPARISON OF THE THEORITICAL FRAMEWORK

This model is from the research conducted by Young & Schottenfeld (2014). The study had been conduct by using quantitative method which about 385 respondents participate on this research. For this research the author are focusing on the four work mode in the knowledge workplace. The four work mode that are been discuss is socializing, learning, collaborating and focusing. The first work mode that been this discuss by the authors is socializing which it focus on the changing idea via network by developing the relationship with other on sharing information. Then, the second work mode is learning which involve activities of teaching and training in order to engage with the process of developing the individual knowledge and skills. While, the third work mode is focusing which this focus on individual making any activities or task like studying. Last work mode for this research is collaborating that involve activity on sharing idea in order to achieve some target. In contrast to the research that will be conducted it can be said that about three factors that can be used which is socializing, collaborating and focusing model. This is because the three types of space are really suitable with the research that will be conducted. Having these three type of space can help the library determine and providing the effective space which can grab the users attention in fully utilized the library and gain their satisfaction need. Furthermore, from the reading of this article it also can be said that the finding, aim and model that be develop are really related to the topic and it can be applied and tested for this research by making it in different context.
3.1 Library space assessment: user learning behavior in the library

This paper are been written by Montgomery (2014). The method of this research paper is by using quantitative research which involved about 240 respondents. The purpose of this research is to know the users perception of their learning behavior toward the changes of library space. In the author research they study on the three type of space which focus on work alone space, social learning space and group collaboration space. For the work alone space it been understand as a place for individual to perform their task individually in order to more focus on their reading or writing activities. The social space is for the user to make social learning activities in a large amount of group member. Then, for the group collaboration space it is refer to the space where the user can freely discussing or sharing idea among each other comfortable. In contrast to the research it can be said that the entire factor can be used in conducting the research on library space. Furthermore, from the reading of this article it also can be assumed that the finding, aim and framework that been develop are really related to the topic and it can be applied and tested for this research by making it in different context.
3.2 User preferences and library space at Whitworth University Library

The study for this framework are been written by Ojennus and Watts, (2015). About 302 respondents who are participate in this quantitative research. Aim for this research is to known and evaluate how the users use library in the recent era and also to determine the possible area that need to be improve in meet the need of the users. There are about four aspect that been discuss in this paper which is individual space, community space, study space and collaboration space. The individual space focus on student area to make individual work like writing or reading that can give some space for individual to more focus on their activities. Having space like coffee area or café are basically focus on community space which been consider the leisure area. Then area where the user can make study activities is been determine as study space. For the space that user can perform activities together is been called as collaboration space. In contrast to the research it can be said that the entire factor can be used in conducting the research on library space. Furthermore, from the reading of this article it also can be assumed that the finding, aim and framework that been develop are really related to the topic and it can be applied and tested for this research by making it in different context.

3.3 Model of Zengagement

The model has been developed from the research by Hunter & Cox, (2014). Reason for the model been renamed as “Zengagement” is because the word “Zen” represent as student have relaxing mind in doing their studying activities and for the “Gagement” focus on how the student can absorb the environment around them while studying. The model basically describes the personal zone for individual to making the personal activities with the suitable atmosphere. In contrast to the research it can be said that the factor that can be found in conducting the research on library space is about individual space. Furthermore, from the reading of this article it also can be assumed that the finding, aim and model that been develop are really related to the topic and it can be applied and tested for this research by making it in different context.
4.0 PROPOSE FRAMEWORK

From the previous research model and framework of different authors it can be said that the academic library nowadays really required for useful space inside the library in order to fulfill the users need with different types of activities. The wish for the users to have comfortable and required space inside the library have made librarian play their role and responsibilities in upgrading or redesign the library space which engage with the different type of activities. Not only that, looking to the previous study the ever changes of way user use the library which they tend to find a suitable space in doing their different type of activities for example like learning, knowledge discovery and teaching activities have give big impact for the library to make improvement for their physical building. Usually, academic library user really required the places for them to do various tasks that can suit with the individual or group work activities. Providing various space which been supported with the technology equipment indirectly can tackle the issues on the minimum number of circulation and gate count activities. Not only that, the existence of various spaces inside the library indirectly it can grab back user attention in fully utilize the library. From the previous study the researcher have produce a framework as been shown in figure 4.0. The aim for this study is towards to explore the level of user’s satisfaction on various types of space. Basically, there are four independent variables and one dependent variable that will be study for this research. The figure 4.0 will show the theoretical framework that will be purpose for the research.
4.1 User’s satisfaction

User satisfaction is been define as understanding the level of need that been fulfill which looking towards the good service provided by the organization or company. The aspect that engage to the users satisfaction is by looking the way user satisfied on the certain need that are been available in the organization or company. For this research the satisfaction value can be seen from the availability of library space inside the library building. It been indicate by many previous study that the library have become one of importance place that they want to use because it can support their learning and teaching activities. Finding from the previous author about 40% need the suitable space that can meet their different types of activities (Ojennus & Watts, 2015). To make the user become satisfied toward the service or facilities available in the library it is necessary to have suitable space support with the technological equipment because this can make users fill to come to the library. It been prove that many students are really required space that is supported with the technology equipment this is because many users will bring their laptop to the library in order to connect with power supply and internet (Bryant, Matthews & Walton, 2009). Not only that the availability of various space also can make the user fully utilize the library. It has been mention by previous author that the existence of valuable space inside the library can really give satisfaction for the user in doing any individual or group task (Hunter & Cox, 2014). Further discussion will be focus on the independent variable which involved collaboration, individual, interaction and community. The explanation for each variable will be discussed as follow:-

4.2 Collaboration

The previous authors have indicated that collaboration is focus on activities to sharing information or idea on some aspect of interest (Elliott, 2007). Another definition from the other author is the space where the student will interact with each other in performing some activities like learning or knowledge discovery (Fatt & Su, 2016; Young & Schottenfield 2014). Need for having the collaboration space inside the academic library is for giving the opportunities for the user easily to interact with each other in performing their group work. It is recommended that this space need to really have the suitable furniture and equipment like power supply in order to make the user easily to perform their task using their laptop easily. Providing this type of space inside the library can make the student easily to build good relationship and have better learning environment in the group. Usually this space been use by the users is for making brainstorming idea towards making preparation for the group assignment or task (Ramsden, 2011). This space
also been used by the user in doing learning or study activities in order to discuss the previous exam paper and do revision with the small group of member (Beard & Dale, 2010). Having this space also can easily make the student to find friend in order to get required resources or information toward their works (Webb, Schaller & Hunley, 2008). This collaboration space has been carried out by four items which include seating design, furniture, flexibility and adaptability, equipment and ambience. All the item will be discuss in order to give the clear picture and better understanding towards making the research for this type of space.

**Seating design**

The academic library must take a look on the seating design in this type of space in order to support the various types of student activities. For meet the user need it is necessary for the academic library to make fully consideration on the seating configuration and the work surface area which can engage on the different type of user’s group size and activities support with the technology equipment. It is importance to consider the seating design because to determine required space according to the different types of group work. From the previous author it have indicate that there are many types of group work that involve informal social interaction, writing paper, learning with friend, project work, problem solving and brainstorming activities (Fatt & Su, 2016). Seating design also can become effective if it been support with various technology equipment and other physical equipment like computer, projector, Wi-Fi and whiteboard.

**Furniture**

Effective and colorful furniture can give big impact to the library because it can grab the user interest to come to the library. Consideration on making available the comfortable and suitable furniture that can engaged the different type of activities indirectly will meet the user satisfaction in doing their task in such a meaningful ways. Been mention by the previous author that most of the student really want furniture that are very comfortable for them in doing many group activities (Seung & Tae, 2015). There is a student that required academic library to provide large table and many seats that can suit with the number or group member (Cunningham & Tabur, 2012).

**Flexibility and adaptability**

As been mention before student really want the place that are very comfortable for them to do any their group works. Suitable space support by technology equipment and the furniture can make the student really enjoy doing their work inside the library and this indirectly can make them produce an effective work. From the aspect of flexibility and adaptability it can be take a look for the availability of furniture and equipment. Portable furniture is very essential because it can give the user flexibility to move the furniture according to the group work activities. These have been confirmed by the previous author where the users really fill enjoyment towards making their work if the furniture can be adjustable suitable with the activities that will be performed (Ramsden, 2011).

**Equipment**

The ever growing of technology makes the users around the world use the technology equipment in performing any task or works. Seeing from the aspect of student most of them use the laptop in completing their task. It is necessary to provide a meaningful space support with the power supply so that the user can plug in their laptop cable in doing their work. Availability of technology like scanner, computer, projection screen, and monitor also indirectly can help the
student in performing their group activities in such a meaningful ways. It have been stated by
the previous author that student need the scanner in order to scan any document in completing
their task and they also want to have Wi-Fi technology for them to connect with the internet
access in searching information via online application (Ojennus & Watts, 2015).

**Ambience**

Ambience can be understood as the environment of the space which can affect the mood of the
users. Usually the criteria that are needed in creating good environment are focus on the
physical factor which includes lighting, color, layout of furniture or equipment and the space
design. It is benefit if the library builds such a good environment for this type of space this is
because it can contribute to increase back the number of user to come to the library. This been
proven by previous author that user fill attracted to use the space if the physical environment
are improve in such an effective ways (Ojennus & Watts, 2015; Seung & Tae, 2015).

Library that use glass window can attract the user attention in fully utilize the existence of library
this is because most of the student really like to seat close to the window where they can view
the outside environment and get the natural light (DeClercq & Cranz, 2014).

**4.3 Individual**

As been understand by many people individual space is a place where the person performs any
activities individually. The availability of this type of space is really importance in order to
provide individual a place for them to more focus on their work without been disturb by the
other. Basically, this space been use by the individual in order to make critical thinking in
producing new idea for any subject or work interest. The minimum level of noise inside this
space can make individual more focus on their activities and can give them produce a quality
work. In term of learning activities this type of space can give opportunity for individual to more
focus on their reading and writing. This been confirm by the author that in order to more focus
on the reading and writing the users really prefer to have individual space that can suit with their
need (Seung & Tae, 2015). There is another author that indicates most of the user wanted the
individual room where they can study effectively or doing revision towards their subject
Bryant, Matthews & Walton (2009). Silent space and support with the technology equipment can also
make this type of space become more effective because the individual can perform their task in
that space without going to find another place (Beard & Dale, 2010). This individual space has
been carried out by four items which include focusing area, noise level, technological equipment
and furniture. All the item will be discuss in order to give the clear picture and better
understanding towards making the research for this type of space.

**Focusing area**

This area is a place where the individual can more focus on their activities without been disturb
with other people or surrounding. Carrel room is been available inside the traditional library
where this room basically provided to the individual to perform individual study or making
individual task. Confirm by the previous author that indicate many of academic users like to use
the carrel room to make their individual activities (Bryant, Matthew and Walton, 2009).
Basically, student who uses this space will make activities such as revision on their subject
taken in the campus and making writing activities toward their research that they conducted.
There are two types of users that will frequently use this type of space which is researcher and
person who want to make individual study.
Noise level

Noise level can be classified to the level of volume that indirectly can give impact to this type of space environment. Lower level of noise can make individual can more productively producing the quality of work for example like researcher they can more focus on their reading and writing activities. Mention by the previous author that most of individual required silent space where they can more focus on their study or revision during the revision week (Fatt & Su, 2016). Not only that, most of academic library student also want to use the silent area because they want to have space where they can think and producing effective idea on the writing their assignment or producing any product (Beard and Dale, 2010; Seung and Tae, 2015).

Technological equipment

In order to make individual more focus on their work the library should need to provide technological equipment like Wi-Fi this is because the individual can easily connect with the information via internet. Usually, researcher really needs the internet connection in order for them to access online material like database and article that are related to their research. This been confirm by the previous author that most of users that use this space have requested that to have proper wireless connection in order for them to connect their laptop with the internet for making their assignment (Beard & Dale, 2010).

Furniture

It is importance for this type of space to have suitable furniture in order to make the student fill comfortable to do their work effectively. This is because having balance furniture like table and chair can give big impact for individual to more focus on their work. Academic library need to play their responsibilities in finding the suitable furniture that can engage to this type of space. Knowing the suitable furniture to this type of space can produce satisfaction toward the academic library users.

4.4 Interaction

Interaction space has been define as a space where the student can easily interact with the resources, library services and librarian or the expert on the certain field or subject area (Fatt & Su, 2016). Even though many of library nowadays have provide the material in online resources which been call e-resources but it is necessary for the library to have the space that can make the user especially student to interact directly with the physical resources and also the library staff in getting valuable information. Basically the availability of this space is for making the user to fully utilize the existence of library by using all the resources available like printed material and meet the expert in order to make any consultation towards the information that they want. It is necessary for the library to build an effective design for this type of space in order to attract the user to use the resources available and meet the library staff in getting or requiring information in doing their assignment. This interaction space has been carried out by four items which include interact with librarian, interact with resources, interact with technology and interact with the services. All the item will be discuss in order to give the clear picture and better understanding towards making the research for this type of space.

Interact with librarian

Knowledge discovery is very hard to happen especially to the user of academic library if they do not have interaction with librarian or expert because it contains a step that must be done before
it can be get. Essentially librarian will guide the user to get information from a resource like a book regarding to the topic needed. With the help of availability of space for the student and user to communicate in effective way, it will help user to having high confidence when it needs to be done. Survey also shown that user will come to the reference desk when they are having a doubt in completing their task and for searching information (Ramsden, 2011). The research student is a focus group that are really needed a help of expert or librarian for completing their research and this is the reason the reference desk also needed a suitable equipment like computer and furniture that can support the interaction between expert and librarian for better show of guidance.

**Interact with resources**

Although the modern era has made the printed material is not popular as it should a long time ago, it actually have a big role for references to the student nowadays. As the library aware of this situation, it will become a need for library to specially create a space that can show printed resources to the user and directly attract their attention to use it for their benefit. The strategy to show the printed material can be done by many ways like arrange it in proper arrangement while using a interactive design shelf for making the presence can be feel. The initiative for planning, designing and locating the shelf must be carefully discussed because it will show how effective the library can manage the printed resources and at the same time can grab user attention on using it (Fatt & Su, 2016). The consideration also must also take care in the selection of resources and one of the ways is by knowing what topic the user wants how the arrangement of resources is actually needed by them (Beard & Dale, 2010). The strategy of implementation to show the printed material is really need to be done because these material is part of very important resources because user will make the material as third place on their list when need to using a resources (Ojennus & Watts, 2015).

**Interact with technology**

It need to be agreed that most of user that coming to the academic library are actually because the availability of computer and other IT equipment that are provided. Library need to make sure all of the equipment are completed because it is one of the initiative for attention grabber and at the same time can increase the number of gate count in the future. Information searching by using the equipment is the most reason why users need it when they enter the library. As can be seen from many libraries, these kind of space will receive lot of attention from user and it will continually to be like that because they will use the place to communicate with other people and accessing information that needed by them. Users also like to bring their portable devices at the space because they can enjoy the Wi-Fi connection so that they can able to do their work. When the connection can be acquired these will make the user can fully utilize the space (Ojennus & Watts, 2015).

**Interact with the services**

Variety of service that can be enjoyed form the library can give them more reason why they need to visit the library more frequently. The other services that can be provided by library is like photocopy, printing and binding. The services are very important to be provided because user in academic library is always engaged with assignment task and they eventually need to print their work as fast as possible and maybe need to make copy for distribution later. When the library are willing to provide this kind of space to the user they will get the attention that they need and this will give good effect to the library as well for long term us of their services. Other than that, the library also can get other benefit like generated a income that can be give back to the user
any different way like increase the efficiency of their work form time by providing other services that will help the user simultaneously.

4.5 Community

The community space are always been understand as a place that let the user of any place to interact either in formal and informal ways. Getting a new idea by making a conversation with each other between people also can be described why this pace is really needed in a place (Montgomery, 2013). As academic library is always be considered as heart of the university that can connect different people for teaching and learning new knowledge, it is important the place are having the community space to make the things happen. The benefits also are not stopped at the level because all of the user can enjoy the social space for doing their informal activities. It also been proved that learning in modern environment is very important to having these communities that are provided with complete equipment like network facilities as to ease the communication to happen (Beard & Dale, 2010). Some author also stated that the spaces are very important because it will be the place where university community will use it for most of their activities. Discussion room, audiovisual room, lecture theatres, and leisure area is example of community space that been build to achieve the objective in the academic library.

Discussion room

Discussion that are be done by student or user of the library are usually happen in this space. Academic library will think the best way to provide the type of room according to user need as long as they can fulfill their interest. There are several reason why they these specific space in library and one of it is to facilitate when they having a task to work in group. When these specific space be provided by the library it will continuously help many user to perform their group work without need to make sound that disturb the concentration of other user at library. Most of the discussion room will have a specific equipment and furniture in helping them to complete their task. Some example of the equipment is like the power supply in connecting their laptop and Wi-Fi for them to access the internet, white board, table and chair that suit the required number of group size.

Audiovisual room

The creations of visual image and sound on the same time are the conceptual of meaning audiovisual (Reitz, 2016). Most of academic library will provide the space to their user. The space are always been considered as classroom because student and lecturer can have teaching and learning session because all equipment for audiovisual are provided such as sound system, projector, screen projector. These space that created are very good to the student and lecturer because it will give them chance to communicate and share ideas in more efficient way. The understanding also can be increase because all thing that been teach can be capture in high level of attention. Apart from the relationship between lecturer and student also can be create in a good way because they are having good space to do that.

Lecture theatres

This space can be described as big room or space that is commonly be used by the student of the academic libraries to perform their learning and knowledge sharing. The main activities that are been done on the theaters is sharing knowledge for a large group of student by lecturer. The other good thing that happens in theatres is the engagement of learning process also happens simultaneously between two sides that is student and lecturer. They will also can create lot of
leisure activities like an event that can connect the activities as part of their learning method. The other benefit when having this place is a better community can be create and at the same the interaction also can happen in various method like sharing thought and opinion.

Leisure area

As lot of space that are been created in the library, leisure area is the most high request space that requested by user. This is because the space usually will help them to have a peace from the other work that had been through for the whole day. The space usually are been equipped with something that can give a good refreshing level for the user like a soft and high resolution television that can attract user to spend their time for a little while. If the libraries have a more budge to spend, they also create a cafe facility to the user because it will let the user have a better communication in not a formal way while they can enjoy their moment together more effectively. As been proved by the researcher, including the cafe can create another satisfaction that will give user to enjoy the time while having a leisure way in communicate the other community members.

5.0 CONCLUSION

Basically, the purpose of the framework is to make our thinking more understand on the multi aspect of users need for the academic library. In the traditional era of academic library it just been consider as a place or building that have single function as to provide access to the library resources. But, focusing to the development of academic library there have improve their function by promoting the activities such as learning, teaching and making effective research inside the library building. Not only that, before this the academic library design are more focus as the stored house where the printed material been stored from time to time in order to be access by the users. The ever growing of printed material in the library have make the space become crowded and it affect the user interest to come to the library. By introducing this framework it will indirectly can highlight the importance of space variety that should be available in the library in order to engage with the different type of user activities. Knowing about how the user use the library have become the challenges for the library in order to redesign the spaces. All of the users that will use the library space have their own characteristic and need to all required spaces which are collaboration space, individual space, interaction space and also community space. Consideration towards the variety of spaces needed by the academic library user are become priority because it can build the very interesting and unique space that can encourage the student or entire users of academic library to fully utilize the existence of that building in the campus.

REFERENCES


Young, S. L & Schottenfeld, M. A. (2014). Collaborative knowledge creation in higher education academic library. Journal of library space. 3(1).