

INTERNSHIP ON ANDROID DEVELOPMENT AND IT EXECUTIVE

BY

FARZANA AKTAR

ID: 152-15-6248

This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

Supervised By

Ahmed Al Marouf

Lecturer

Department of CSE

Daffodil International University

Co-Supervised By

Shah Md. Tanvir Siddiquee

Senior Lecturer

Department of CSE

Daffodil International University



DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This internship titled “**Android Development & IT Executive**”, submitted by **Farzana Aktar ID: 152-15-6248** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for a partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 06 May 2018.

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Head & Professor

Department of CSE

Faculty of Science & Information Technology

Daffodil International University

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Md. Zahid Hassan

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Daffodil International University

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Faculty of Science & Information Technology

Daffodil International University

Internal Examiner

Dr. Muhammad Shorif Uddin

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Department Of CSE

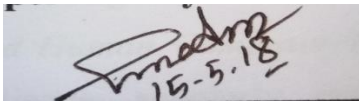
Jahangirnagar University

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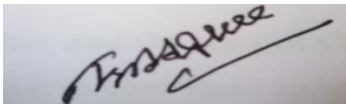
I hereby declared that, this internship has been done by us under the supervisor of **Ahmed Al Marouf, Lecturer, Department of CSE** in Daffodil International University. I also declare that neither this internship project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

Supervised by:



Ahmed Al Marouf
Lecturer
Department of CSE
Daffodil International University

Co-Supervised by:



Shad Md. Tanvir Siddiquee
Senior Lecturer
Department of CSE
Daffodil International University

Submitted by:



Farzana Aktar
ID: -152-15-6248
Department of CSE
Daffodil International University

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ABSTRACT

We ponder over how information technology has changed our daily lives. In our subconscious we know that without IT everything would come to a standstill. Not just businesses but individuals, students, patients and each one of us use its applications to make life easier and more convenient. Nowadays, with the single click of button, you can shop online or send e-mail, search for jobs or review research projects. Indeed, information technology is helping us rapidly advance towards gather efficiency and performance. Finally is at the core of every enterprise's digital strategy. There are numerous platforms are offering easy mobile app development for android, iOS, Windows and other operating systems. The Android OS, however, has progressed by leaps and bounds acquiring 87.7 percent of global market share. Such as An ever-growing numbers of enterprises are adopting Android to build custom mobile apps to considerably boost their requirements and attain tremendous business growth. Because of Open Source Low Investment & High ROI, Customizable User interface, Multiple Sales Channels, Easy to Adopt.

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Introduction

Maximum critical business are today's initiatives cannot succeed without effective integration of information. Initiative like as a view of the customer, business intelligence, supplies management, complete, and trustworthy information. So Android Development system& Information Technology is a unique solution. To get an honorable job in an intelligent company, student must have a practical experience on job related topic. Industrial training is very important for every student. Especially industrial training is helpful for engineering students. When students have practical experience and degree, they have self-confident for work in field. A student takes the internship program at the last stage of study. Students start their career with practical experience.



[<http://www.az.undp.org/content/azerbaijan/en/home/operations/internship-1.html>]

1.2 :-Motivation:

Student can improve their skills (server, Hardware and software management) by completing this internship. This training also helps me to get a real experience on android development and IT. And in future I think I can easily get a job and work confidently and comfortable in job. Android and information technology is the best sector in computer science and engineering. To increase the participation in programming sector I decide to enter in this side and I have to available myself every part of my life.

1.3 :-Internship Objective:

The main objective to intern can be decomposed to 3 smaller objectives:

- Objective 1: Get an opportunity to work hands on in a professional environment.
- Objective 2: In internship I gain actual work experience.
- Objective 3: It teaching me more about the career path and make me pursuing.

Think of it like this-internship are a way to test drive possible jobs and explore different career option.

1.4 :-Introduction to the Company:

Mirai International Event Management Co. Ltd. is a renewed Bangladeshi Event Management company, has successfully arranged international expos, expos and other programs in countries like the U.A.E, Qatar, Oman, Malaysia, Singapore, Italy, Canada, UK & USA. Now, for the first time ever, a Bangladeshi company is arranging an international expo in Japan.

For many decades, Japan has been our ally when it comes to economic, technological and infrastructural development. Several other countries have benefitted from the generosity and diplomacy of Japan, in that countries like Indonesia, China, Korea, Taiwan, Malaysia, Singapore and others have all shown considerable economic and technological development by doing business with Japan. We, as Bangladeshis, also want to receive that assistance from Japan in the process of consolidating our mutual relationship. On that end, we wish to build on our business and economic relationship, and have thus taken the major initiative of organizing this business expo.

1.5 :-Report Layout:

A report layout is a document that acts as a template that defines the appearance of a Microsoft Dynamics NAV report when viewing, printing, or saving the report. In particular, a report layout sets up the following:

- The label and data fields to include from the dataset of the Microsoft Dynamics NAV report.
- The text format, such as font type, size and color.
- The company logo and its position.
- General page settings, such as margins and background images.

A Microsoft Dynamics NAV report can be set up with multiple report layouts, which you can switch among as required. You can use one of the built-in report layouts or you can create custom report layouts and assign them to your reports as needed.

There are two types of report layouts that you can use on reports, *Word* and *RDLC*.

For more information, see the following sections on this topic.

- Word Report Layout Overview
- RDLC Layout Overview
- Built-in and Custom Report Layouts

CHAPTER 2

Organization

2.1:- Develop Android Application

In our company have e expert Apps developer team. I am a fresher member of their team. I with of them three month and gathered knowledge & know how to developed an application.



Figure-2.1: Develop Android Application.

[<https://hackernoon.com/stunning-new-features-of-android-studio-3-0-9ec53292f60e>]

Pick an Idea:

First of all define a problem and find out that's solution. Every idea comes from a problem. When we faced any problem then we try to solve it and implement an application for welfare mankind.

Define the Core Functionalities

Find out an idea, and then define the functionalities how type activities we keep in the application or what function are needed for client or customer. Imagine that about what our app should be able to do and list them out. If you finished listing a bunch of things, take a good look and ask yourself if this app REALLY awesome.

Sketch App

Draw the user interface, how looks like the application. It's very important for a successful application. Nothing is better than a pen & paper. By now you should have a pretty fresh idea of what your app should do, so sketch out the wireframe of your app's UI. Where function should be located, what the purpose of that point is, and so on.



Figure-2.2: Sketch App

[<https://designshack.net/articles/inspiration/best-sketch-templates>]

Plan Application UI Flow

We have a good idea of what ours app will look like, what every part should do, and how users can communicate with ours app. Now it's time to diagram out your app's UI flow. Meaning, how a user can use your app from first to last. Chart out every step they have to take, and every figure they might encounter. Try to consider every try-case.

Design the Database

After our planned out every capable scenario, take a look at it to determine what type of data you would need to keep. Example, if our app requires users to create an account, you'd need to keep identification of things such as the username, user ID, the user's email, the password, whether user's email is confirmed, when the account was completed as well as every time the user can logged into our app.

UX Wireframes

You understand what you need—now you have a so much better thinking of what your app should look as. Since mankind are mostly basic creatures, you'd have a best time understanding what you should do if you have a think of every view you'll be coding. However, if you're like me and your drawing is so little you can badly understand the all piece of...*cough* masterwork...you've created, it's naturally foolish to proceed with the step through abusing your poor human brain cells.

Luckily, many wire framing and makeup tools exist online to support you plan your user interface flow.

Design of the User Interface

This is an important step, but if you otherwise to specialize in front-end development or if you very care full about what your application is going to as like to the point where a prettier application would in carouse you to code, Finally go ahead and implement the application so all those wireframe UI elements can be exchanged with nice-looking.

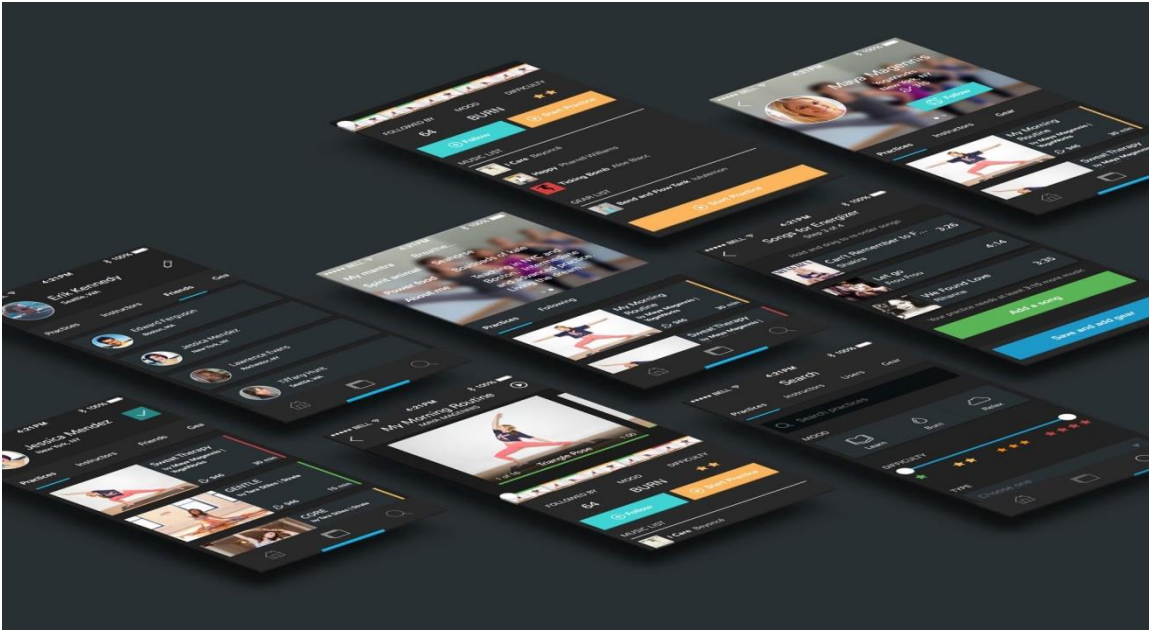


Figure-2.3: UI design Apps.

[<https://goodmockups.com/free-perspective-app-ui-design-screen-mockup-psd/>]

Researching Solutions

A well skill you'll have to learn as a programmer is to grow up when you should use anything like other developer has written in before, and when to create the function yourself. Since someone is building a unique app, every use case is the different. Thus, you have to compare when to use an existing solution and when to implement your own, and you'll get best at doing so with experience.

Building the App

You will focus on create the application function by function. Thus, if you're not complete with one task such as a comment system, you can't start to build a user profile view. In other wish, if you're creating a form, Example, you would work on the same front and back-end code until the function is done.

Final Tip

Developers make wrong all the time, so don't feel disappointed when you can't even pass a test you've written or if you're frequently tripping over yourself. Check your program again and try to the right solution, overcome the error or problem and build your application.

2.2:-Product and Market Situation:

Mirai International Event Management BD Ltd is Bangladeshi reputed company. MIEM is the first company is organizing an international expo.

Mirai International Event Management Product is Project Management, Logistic Supply, International Expo, Experiential Marketing, Festivals & social Event, CSR & Corporate Events.

Mirai International Event Management Com. Ltd

House # 36, 5th Floor, Road No-02

Dhanmmondi, Dhaka.

Phone: +88-02-9615239, 9615240

E-mail: mirai.bangladesh@gmail.com

Web: www.miraieventmanagement.com

Mobile: 01991707777

2.3 Target Group:

Mirai Event Organized as provide by a group of Bangladeshi and Japanese businessmen, who have years of well learned working in the event organizing sector worldwide. Most of the people are thinking "MIRAI did a fantastic job of managing our third Anniversary party she growth familiarized herself with our company, the event objectives and expected outcome to ensure that we were on target with this event from the beginning. Everything from the venue, entertainment and logistics were managed heart soul with our end goal in memory. Mirai took the time to learn about our company policy and she fully understood our rules in order to provide us the most determine services.

2.4:- SWOT analysis:

SWOT analysis is a unique strategic planning technique used to help a person or organization identify the internal Strengths, Weaknesses, Opportunities and Threats related to business competition on the business platform or project planning. It is intended to specify the objectives of the business venture or project and identify the internal and external factors that are favorable and unfavorable to receiving those objectives. Client of a SWOT analysis often ask and answer questions to generate perfect information for each type to make the tool easy way and identify their perspectives advantage.

[http://miraieventmanagement.com/web_admin/page/Wedding%20Party]

Strengths and Weakness are two part of SWOT is frequently internally-related, while Opportunities and Threats are another part of SWOT is commonly focus on environmental platform.

- **Strength:** Strengths character of the business or project that gives it an advantage over others activates.
- **Weakness:** Weakness characters of the business that place of the business or project at a disadvantage relative to others activates.
- **Opportunity:** Opportunity elements in the environment that the business or project could exploit to its advantage scope in business.
- **Threat:** Threats elements in the business or project environment that could cause trouble and its disadvantage for every placement.

2.5:- Organizational Structure:

An organizational figure is a system that defines how the activities do are directed in order to achievement of the aims and success history of an organizational platform. These activities can include rules, roles, and responsibilities strictly. The

organizational structural framework also determines how information flows from level to level and up to bottom within the company.

For an example, in a centralized figure, decisions flow from the top down, while in a decentralized figure, the decisions are made at various different levels decision.

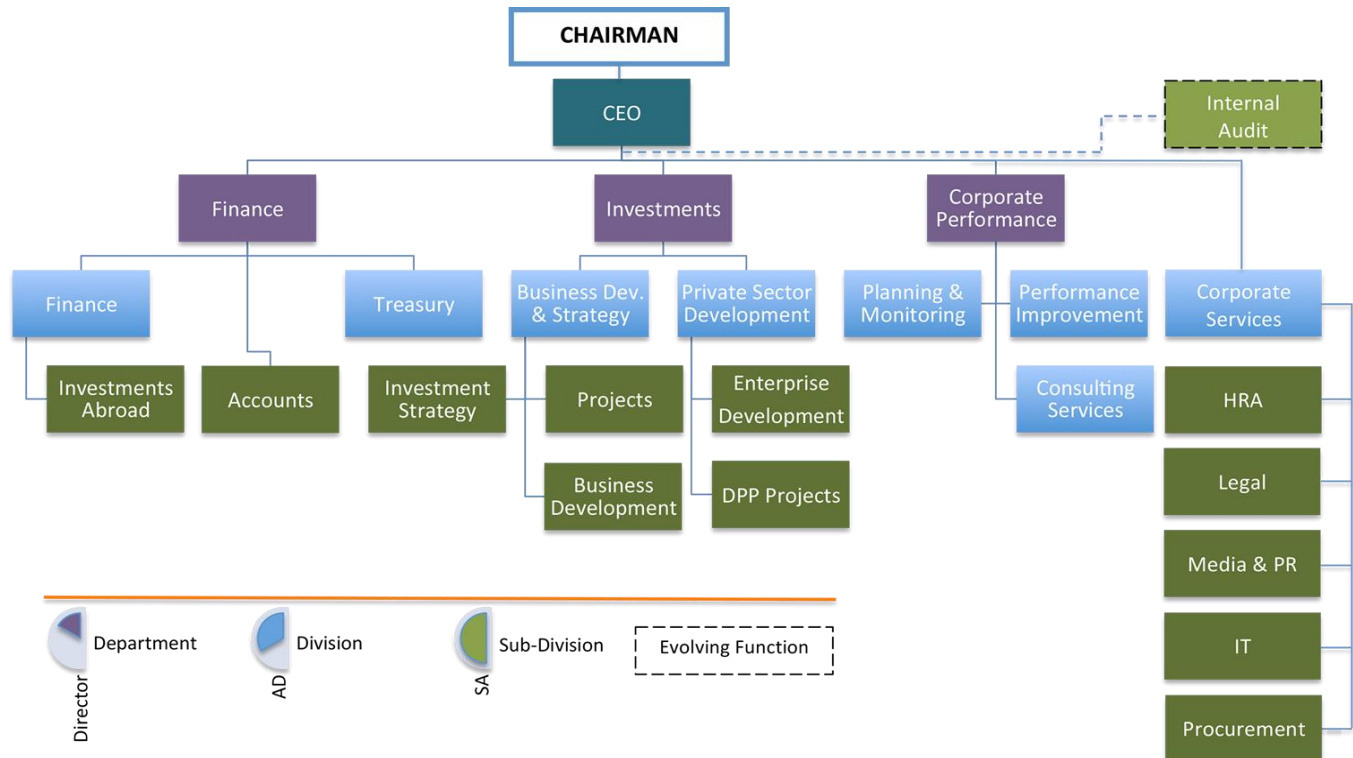


Figure-2.1: Organization Structure.

[<http://unitedpowerofasia.com/en/corporate/organization-structure>]

CHAPTER 3

Tasks, Projects and Activities

I intern 3 months (90 days) in Mirai International Event Management Ltd. My intern Start 16-10-17 & End 16-01-18 in min time I do my activities properly and learn my team member in my company. They are very helpful. In below mention my daily activities, event activities, and project activists.

3.1:-Daily Task and Activities:

My joining designation is Android developer and information technology executive so I work with my team in apps developing. Senior members always taught me how to implement an application and understand the function. After few days I contribute to help them in project. Not only team works but also maintenance server system, networking problem, computer software hardware problem.

Table No 1: Daily Task list

Date	Start time	End time	Description
16-10-2017	10.00 AM	04.00 PM	Introducing Office staff, team member and hardware, software settings of my computer and desk.
17-10-2017	10.00 AM	04.00 PM	First project meeting of my team with a new project “Best Deal”.
18-10-2017	10.00 AM	04.00 PM	Design the project.
22-10-2017	10.00 AM	04.00 PM	Design the project.
23-10-2017	10.00 AM	04.00 PM	Design the project.

24-10-2017	10.00 AM	04.00 PM	Data collection.
25-10-2017	10.00 AM	04.00 PM	Data collection.
29-10-2017	10.00 AM	04.00 PM	Final Meeting To implement the project start.
30-10-2017	10.00 AM	04.00 PM	Implementing the project with team member and my implementing part of the project is UI.
31-10-2017	10.00 AM	04.00 PM	Implementing UI
01-11-2017	10.00 AM	04.00 PM	Implementing UI
02-11-2017	10.00 AM	04.00 PM	Implementing UI
04-11-2017	10.00 AM	04.00 PM	Implementing UI
06-11-2017	10.00 AM	04.00 PM	Implementing UI
07-11-2017	10.00 AM	04.00 PM	Submit my work/code to the team leader after testing. Team leader satisfied my work.
08-11-2017	10.00 AM	04.00 PM	Observed the offices pc
09-11-2017	10.00 AM	04.00 PM	Check the offices pc's software and hardware.
11-11-2017	10.00 AM	04.00 PM	Check the offices pc's software and hardware.
13-11-2017	10.00 AM	04.00 PM	Checking the network.
14-11-2017	10.30 AM	03.00 PM	Attended the event fair .My company management the fair event and I was drawing the event stall.
15-11-2017	10.30 AM	03.00 PM	Attended the event.
16-11-2017	10.30 AM	03.30 PM	Attended the event.
17-11-2017	10.30 AM	03.30 PM	Attended the event.

18-11-2017	10.00 AM	04.00 PM	Take rest in home / Don't go office
20-11-2017	10.00 AM	04.00 PM	Meeting with my team member with my second new project "Weather report"
21-11-2017	10.00 AM	04.00 PM	Design the project and maximum designing part I was completed by 5 days.
22-11-2017	10.00 AM	04.00 PM	Design the project
23-11-2017	10.00 AM	04.00 PM	Design the project
25-11-2017	10.00 AM	04.00 PM	Design the project
27-11-2017	10.00 AM	04.00 PM	Design the project
28-11-2017	10.00 AM	04.00 PM	Data filtering
29-11-2017	10.00 AM	04.00 PM	Data filtering
30-11-2017	10.00 AM	04.00 PM	Start implementing the project with team member and as usual my part is UI implementation.10 days were needed to complete my coding part.
02-12-2017	10.00 AM	04.00 PM	Coding
04-12-2017	10.00 AM	04.00 PM	Coding
05-12-2017	10.00 AM	04.00 PM	Coding
06-12-2017	10.00 AM	04.00 PM	Coding
07-12-2017	10.00 AM	04.00 PM	Coding
09-12-2017	10.00 AM	04.00 PM	coding
11-12-2017	10.00 AM	04.00 PM	Coding
12-12-2017	10.00 AM	04.00 PM	Coding
13-12-2017	10.00 AM	04.00 PM	Coding

14-12-2017	10.00 AM	04.00 PM	Team leader check my code and got some error.
16-12-2017	10.00 AM	04.00 PM	Correction the error.
18-12-2017	10.00 AM	04.00 PM	Correction the error.
19-12-2017	10.00 AM	04.00 PM	Final submit the code
20-12-2017	10.00 AM	04.00 PM	Take rest 2days.
21-12-2017	10.00 AM	04.00 PM	No office
23-12-2017	10.00 AM	04.00 PM	No work just observing the office pc's network and maintained
25-12-2017	10.00 AM	04.00 PM	Observing Network support
26-12-2017	10.00 AM	04.00 PM	Observing Network support
27-12-2017	10.00 AM	04.00 PM	New project and my third project is "Chologori" project meeting.
28-12-2017	10.00 AM	04.00 PM	Design the project.
30-12-2017	10.00 AM	04.00 PM	Design the project.
01-01-2018	10.00 AM	04.00 PM	Design the project.
02-01-2018	10.00 AM	04.00 PM	Design the project.
03-01-2018	10.00 AM	04.00 PM	Collection data and need 3 days.
04-01-2018	10.00 AM	04.00 PM	Collection data
06-01-2018	10.00 AM	04.00 PM	Collection data
08-01-2018	10.00 AM	04.00 PM	Data filtering need for 2 days
09-01-2018	10.00 AM	04.00 PM	Data filtering
10-01-2018	10.00 AM	04.00 PM	Observing the offices pc
11-01-2018	10.00 AM	04.00 PM	Observing the offices pc
13-01-2018	10.00 AM	04.00 PM	Observing the offices pc

15-01-2018	10.00 AM	04.00 PM	Observing the offices pc
16-01-2018	10.00 AM	04.00 PM	No work, my last day in internship.

3.2:-Events and Activities:

Mirai is event management Ltd. Company so it organizes or attend different event and attend the event. It organized project management event, international expo, and marketing in country and another country.

3.3:-Project Task and Activities:

I am a project member of a project. I built the user interface. Project leader and teammate give the guide line and direction how to create an application as client requirement.

3.4:- Challenges:

Time, Quality and Cost

One of biggest challenge faced by all organizations that wish to use proper project management and ensuring that their projects delivery the agreement objectives within fixed time, cost and to the agreed with good quality product. These factors must be balanced will be built up the relationship to the overall scope of the project.

Resources

Projects management or requirement fulfill rely on the effective employment of finite resources, whether these are people, equipment or facilities in other words all required to complete a project activity available and these will cost money. The organizational faces the challenge of ensuring that they make the most successfully of these finite resources.

Peoples

Probably the most important resource on any project and the challenge that an organization has to meet when using project management relies on the efficient utilization of these people or man power. It is vital recourses that the right people are used, that they receive the correct training and that they are clear on the objectives of the project.

Technical

For unique nature of projects and their will frequently is the need to employ new technology. The challenge will be dealing with this new technology – do we have the staff who can use it, for this they will need training, does the technology we require even exist or will we have to make it ourselves revolution?

Legal

All organization will have needed to deal with law and legislation when embarking on a project. Most of the project work frequently involves working abroad and always includes the use of contracts with organization. The organization must be seen their requirements and their legal papers therefore determine which legal system they will employ for their project, if they are working abroad. There will also be industry-specific legislation that must be followed the legal procedures.

A project does not exist in a vacuum; in order to delivery with successful projects an organization must be aware of those factors (both internal and external) that will have an impact on the project or organization.

As long as possible an organization is fully aware of these challenges and deals with them appropriately, they can easily be overcome. The benefits of using project management, by far, outweigh or overcome the challenges of the projects.

CHAPTER 4

Competencies and Smart Plan

4.1:- Competencies Earned:

Competencies are the one of the main strengths or strategic formula advantages of a business, including the combination of pooled knowledge and technical capacities that allows a business to be competitive other company or products in the marketplace. Theatrically, a competency should allow a company to promote into new end markets as well as provide a significant benefit and acceptance to customers. It should also be difficult for competitors to replicate the previous marketplace.

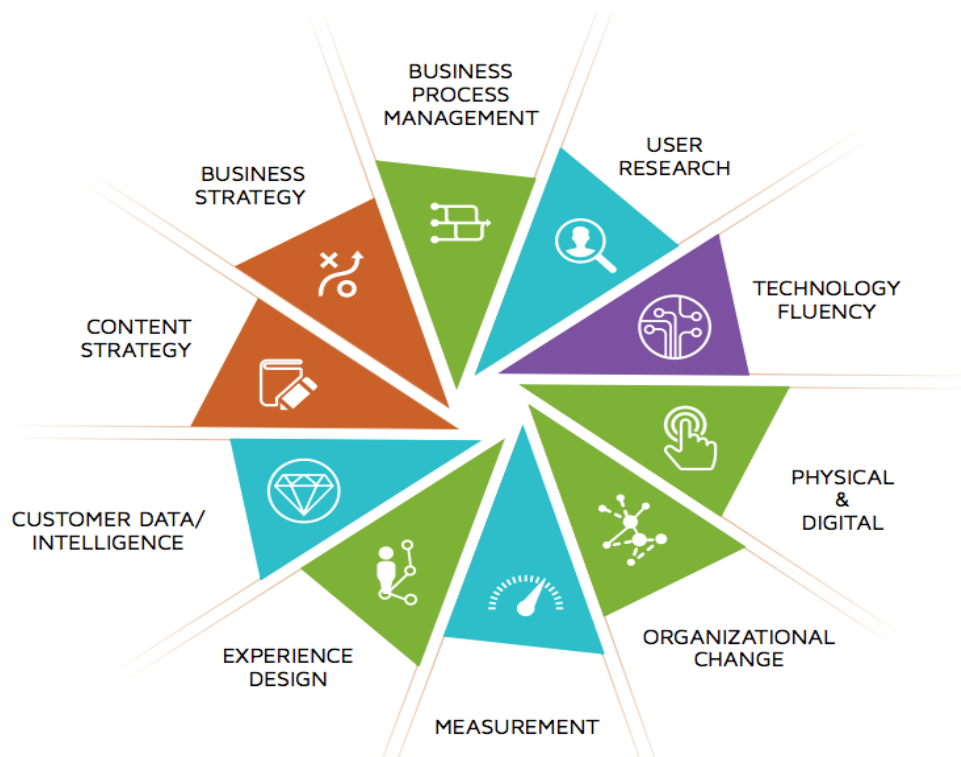


Figure-4.1: Competencies.

[<https://contentmarketingmanagement.nl/verschillende-media-inzetten-gebruik-het-peso-model/pesoinfographic>]

4.2 Smart Plan:

Smart plan is easiest form, a business pre plan is a document that outlines the basics about our business, products, and services; the market that we are targeting; the goals we have for our business; and how we will achieve those destination goals.

A smart business plan is one of best important plans you should have when you are starting a business or company, the others you should being a marketing plan and a financial plan. If your business plan should pull all three of these plans together, incorporating elements of your marketing plan and your financial plan into a comprehensive document then finally you can start your business. Think of your business pre plan as a map or blueprint that will guide your business from the start-up phase through establishment and eventually business growth in future.

You should need some of the reasons to include a smart business plan that may apply:

- If you are going to apply for a bank loan, pitch your business to investors, or bring in a business partner to your new business.
- You won't truly be able to qualify if your business idea without understanding your target market product, researching the competition in market, and conducting a feasibility analysis all parts of a business plan for going on the successful destination.
- A well smart business plan not only outlines where you are and where you want to be, but also helps you identify the specific actions you need to take to get there and client or user proper demand.

- A smart well business plan can provide essential background information on your business, strategy, and culture to employees, including managers and staff, as your business grows and profitable business.
- The financial part of your business plan can be the root of your business budget and a useful tool for managing cash flow on a monthly basis cost and income.



Figure-4.2: SMART Plan

[<http://pishondesigns.org/Dbase/s-m-a-r-t-goals/>]

4.3:-Reflections:

Our country is now a technology services and solutions company providing high quality end-to-end IT Solutions and Services to clients globally. We are expert in creating desktop software solutions, web design applications, android mobile applications, Event Management organization, International Expo fair, Organize cultural Festival and more to bring our clients innovation ideas to reality. We have an experience in delivery high quality total solutions for different domains including Healthcare system, Banking system & Financial Service system, Retail & Shopping system, Logistics & Transportation management, and Media & Entertainment festival, Automobile and Fashion house festival and more.

CHAPTER 5

Conclusion and Future Career

5.1:- Discussion and Conclusion:

Today's the day of IT. IT and Android is a great thing in it. It's actually use for communication though internet. Everyday smart and intelligent company use it support to solve every internet and communication related problem solve. Company sector use their personal it engineer to secure and work faster without any network related problem.

Android is also a common application at now in the world. Every profession people use it now for their own related work. Android make life easy and comfortable to use internet, communication, access server etc.

Now a day's a small device "smart phone" by using work related software. Student, teacher, businessman, political person everyone use this device.

People of our Bangladesh will have not only educated but also learned. New invention will invented by Bangladesh scientist. Bangladesh will be a popular and modern country in this world.

5.2:- Scope for Further Career:

In future being an open source platform, I don't see an expiry date for Android application. It is being used in most of the smart device out there. It is famous and extremely desirable it's not only for the users or client but also the developers too. The application design is a break through innovation idea in the history of Android. ART runtime is the future of Android new invention. Keeping in mind that there are companies that customize the stock Android application and add their own modifications suiting them the feature, more and more companies are adopting this welfare function. Since it is an open source Operating System, developers can create their own custom ROMs, suiting their needs and also make it available for users by solution their problems. This will only lead to one conclusion; the future of Android is just going to get wider promote in whole world.

Now at all not only in mobile phones, but also tablets and even PCs have this operating system? Apart from that, day by day it is also integrated in today's smart television sets. It'll also be integrated in other electronic devices soon that are called the artificial intelligent. Controlling your refrigerator or air conditioner with your Android device, or even the spin rotation and count of your washing machine everything is possible. Everything controlled by one device android application or artificial intelligent.

In future Bangladesh will become fully digitalization by server system. Government can use server system in various ways. Every division of government can use server system to store their huge data and people can easily access them through internet or special interface. IT will have a special secure server system with satellite connection.

Education division will have a personal server for more reliability. People of our Bangladesh will have not only education but also learned. New invention will invented by Bangladesh scientist. Bangladesh will be a popular and modern country in this world.

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