

HiLCoE School of Computer Science & Technology

Information System Individual Assignment II

Name: Abrham Getachew

Email: Abrhamcisco@gmail.com

Job: Junior VOLVO Truck Sales Engineer at Equatorial Business Group
P.L.C

Submitted to : Wendwesen Endale

Date : December 12th 2020 G.C

✓ Title of the idea / project - can be any name you propose

- Web based Project management Application

✓ Introduction

○ What makes this idea feasible?

- To understand what this idea makes feasible we must first understand the problem. Here in Ethiopia, there is a huge problem of project finishing. Often times, projects are started and yet they are not completed as scheduled. This have resulted the total cost of the project to overrun, the stakeholders to become upset and frustrated, and the project not to deliver their intended use on the intended time. Studies show that, one of the reasons for project failing to complete on time is a problem of project implementation and management. Study conducted By Mr. Alex Sahle Regarding the topic “causes of failure of projects financed by Development Bank of Ethiopia: The case of dessie district” has found that “84 % of the respondents support that poor implementation of project can cause a financed project to fail, like wise two few respondents (2%) are neutral in this case while 14 % of the respondents are responded that a problem of implementation has no impact on project failure. Upon management problem ,50 % and 40% of the respondents are strongly agreed and agreed respectively and 4% are neutral in the case and the remaining 6 % are conformed that management problem has no effect on project failure. From this figure we deduce that management problem is highly responsible for a financed project to fail.”
- So, to overcome this problem one solution is improving our project management and implementation skill.
- One way we could do this is by using web based project management apps.
- Web based project management apps are apps that are specifically designed to aid project managers and members to plan, execute, monitor and finish projects effectively. They encompass tools like Gantt charts and time lines and utilize the capability of computers and networks to share ideas effectively to distribute data among participants. These apps can be accessed anywhere were internet is available via phone or computer. This makes them ideal to register and report project progress effectively. Using these tools it is easy to monitor and implement projects that are being implemented in harsh conditions.

○ How you plan to make a difference?

- Having such kind of system in action can change the project management industry so much. This technology is disruptive.
- By using this application huge building projects like dams and other IT projects can be managed with ease.
- These project management tools are not only limited to be used by bigger companies on bigger projects. But they can also be used by individuals to manage their simple projects. Everything that has a specific goal and that can be started and completed within a fixed period of time is called project. This definition not only considers huge tasks like building dam as a project but also small tasks like drawing as a project. So this product can also be used by individuals in their day to day life to manage their life.

✓ Previous similar or related attempts on this area (can be local or international experience)

○ As far as I was able to find out, there are no local products in this area.

- You might find products like Microsoft project being used to plan a project. But because these kinds of tools are stand alone and because they don't work via the internet it is hard to collaborate using them. Even if they do, it is expensive to implement their networked project management version

○ International or foreign products.

- Having such kind of project management system is not new in foreign countries. Web apps like asana, instagantt and trello are good example. These project management tools will not only help managers manage their project effectively but, they also provide team and individual participants of

the project the ability to share idea and collaborate effectively. This intern maximizes the team or individual productivity thereby enabling them to complete the project on time with a reasonable quality. But sadly we (Ethiopians) cannot use these products because they are expensive and require us to pay in dollars. Paying in dollar is not feasible for everybody in Ethiopia because there is a foreign exchange shortage.

✓ How it can be applied in our context?

SWOT analysis Summery (use table format to summarize)

Strength	<ul style="list-style-type: none"> • My previous experience in web application development. And my knowledge and understanding of web application development tools and apps like MongoDB, Node.js, Express framework, and react library. • My Ability to stay focused and work for long period of time. • I have access to the internet. • I have laptop computer that is capable of handling the tasks that are required by web development apps.
Weakness	<ul style="list-style-type: none"> • Being busy and occupied by work and other staffs.
Opportunities	<ul style="list-style-type: none"> • Government and other non-government institution are looking for idea like mine to incubate and grow it. • There are many personal users, government and non-government companies that could benefit from my service (this app). • There are many users of the internet here in Ethiopia. • Many people have access to computing devices like smart phones and computers. • The government has a huge ambitious plan to expand internet coverage throughout the country. This means a large number people over a wide geographical area can access this app.
Threats	<ul style="list-style-type: none"> • Low internet penetration or poor internet connection quality here in Ethiopia. • There are no hosting companies that support MongoDB. • People's ability to understand such apps and work with it.

PESTL Analysis summery (use table format to summarize)

	Challenges	Opportunities
Political	<ul style="list-style-type: none"> • No Political challenges. 	<ul style="list-style-type: none"> • There are no government policies or lawsthat can inhibit this app from being developed and used. • The government is now focusingon improving its ability to start and finish projects on time as planned.
Economic	<ul style="list-style-type: none"> • Inflation of prices of goods might make the service expensive to use. 	<ul style="list-style-type: none"> • More economic growth means more projects, so the strong economic growth trend that is being seen here in Ethiopia provides a good opportunity. • Lack of foreign exchange is a big barrier for local customers to use foreign apps like this. For this reasonit is easy to convince them to use local products. This makes the product preferable over the foreign one. • The positive impact this app has on the Economy will enable it to have large acceptance.
Social	<ul style="list-style-type: none"> • No Social Challenges. 	<ul style="list-style-type: none"> • No norms, customs and values of the population are against building and implementing this app. • The fact that this app makes collaboration easy makes it preferable for socializing.
Technological	<ul style="list-style-type: none"> • Internet might be expensive for some people to use. 	<ul style="list-style-type: none"> • Internet is growing in an unprecedented rate. Everything is becoming digital and everyone is getting connected to the internet. Because of this, the app can be reached by its

	<ul style="list-style-type: none"> Some participants of a project might not have access to smart devices, laptop or desktop computers. There is a risk of being hacked. 	<p>clients almost from everywhere.</p> <ul style="list-style-type: none"> Accurate data can be collected with ease using smart devices and IoT Technology.
Environmental	<ul style="list-style-type: none"> No Environmental challenges. 	<ul style="list-style-type: none"> The app can perform anywhere where there is an internet and mobile device regardless of different environmental aspects and conditions.
Legal	<ul style="list-style-type: none"> No legal challenges. 	<p>Legal bodies can utilize this app because</p> <ul style="list-style-type: none"> The app can help legal bodies enforce some project specific rules. The app can help legal bodies or stakeholders control and evaluate a project progress easily and effectively.

- ✓ Who will be the target service users? And why they need this service?
 - Project managers and other peoples that participate on project.
 - They need to use this product in order to manage their project well and accomplish it with reasonable effort and time.
 - Using this app, it is easy for project managers to plan, execute, monitor and finish projects.
 - Teams that participate on projects can use this app to collaborate and share ideas effectively.
- ✓ Who can be good partner / supporter / investor for this idea to make it practical?
 - **Government:** Since the government implement many small to large projects, it is wise for the government to invest this project.
 - **Other private companies:** Companies that are working on projects like construction projects, IT projects and so on could also benefit from this project.

✓ Summery

In conclusion, web based project management apps can be a very great tool to manage and implement projects effectively. They can be a big relief to our nation's project management problems. For this reason, I want to build or develop web based project management application.