



slington college
(इस्लिङ्टन कलेज)

Module Code & Module Title

CS6P05 Final Year Project Computing

Assessment Weightage & Type

Individual Project

Alumni (Student) tracking system

Year and Semester

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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

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Acknowledgement:

I would like to express my sincere gratitude to all our module teachers, our lecturers for providing their valuable guidance, comments and help during my study period in this college. I would also thank my classmates who constantly motivated me to work hard.

Abstract:

This is the final year project proposal where I have illustrated the detailed outline of my project that I am planning to do. I hope my respected supervisor will give me good feedback so that I will be helpful during my project.

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1. Introduction:

Alumni (Student) tracking system

Every single day a new type of technology is being introduced to the world. Technology has improved a lot over years, and it is a great thing these days, because it can be very helpful. Everybody wants to take advantage from technology and want to learn it. From small child to old age people everyone has got their own smart phone, and computers. People started learning new things and started inventing new technology. People start believing that education is one of the important factors of life. Lots of colleges and schools are opened by promising that they provide better education to the students. Such organizations are nowadays managed by technology and softwares. Like student attendance, event organization, examinations student registration every task is done through software and new technology.

1.1. Problem Statement:

The problem faced by most of the university who graduates skilled students is they are unable to make relation with the students in the future. Now day's there is a trend of going abroad for higher study in our society. A university have done a lot of effort to make students qualified in their field. But after the graduation they are not able to be in touch with their own student. A student graduates from a college and works for another new companies.

Not only university same things happen to the students who are enrolling in the college. Students want to know about the scope of the education that after reading the skills where can they work and how they will be able to be feasible in market and want to get help from their alumni.

And also because of maintaining a static database of alumni the updated information of them is not present at college and this data of college graduates is very important for any college to record their students' profile for future use.

1.2. Project as Solution:

My project is about an app that helps the university and students to track their alumni after the graduation. The project will be a mobile application using flutter technology which will be feasible for both android and iOS users.

The application will help university to track their alumni and be in touch with their students even after their graduation. Here alumni can make their profile about where they are currently working and can mention their post. They can mention their current location so that college can access them when possible. College can organize event and call their alumni for programs and meetings. Likewise, final year students can ask their seniors about the projects and get help from them with the help of chatting feature. Alumni will register themselves in the application as alumni and they have to add their details with the batch year. According to the detail the college will be able to search that student and can get in touch. The alumni can post their progress and inventions and can be seen by all university and students so that they will get idea about the scope of study and new inventions. Also, the alumni can share their progress link from GitHub or emails to help students and college.

When alumni will go to new company then the college can also get to know about new companies due to the relation with their student. they can visualize the company back ground and can recommend their freshly graduates students for interns and job opportunity.

With this all the information of the alumni will be stored in separate database where only information of alumni will be found and will be secured for future use.

2. Aims and objectives:

1. To help university/ college to track their alumni.
2. To help final year student to get help from their seniors.
3. To advertise about the college and its scope by showing progress of alumni.
4. University can get in touch with newer company with the help of their alumni.
5. To make relation between college and students for life time.
6. To organize different events and share information between college students and alumni.

3. Expected outcomes and deliveries:

At the end of this project an individual university will be able to track their alumni, know about their progress and can be in touch with them. the university will be able to interact with new company and discover new technology to help their fresh students. Final year students can get helps from their seniors with this application by getting ideas about their project.

4. Project risks, threats and contingency plans:

I have planned to include a messenger chatbots in the application for sharing messages between students, college and alumni. In this feature student will be able to message the alumni about the project help and the alumni can share their experience with the juniors. Also, the college/university can message their alumni. As I am doing this with flutter there might be some problem due to their regular version update which may impact on this messaging features, so I want to keep this feature in risk.

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5. Methodology:

There are various types of software development methodology. Some are made for big projects with high investment and some are made for small projects. While developing a software the methodology should be chosen in a very conscious way.

For this project I am going to use Rational unified process for software development methodology. It was purposed by IBM. The reason to use this methodology is due to its features that suit the application development process which I have purposed to make. The main features of this methodology are:

1. Develop software iteratively (helps me to debug and fix the error in my application tentatively).
2. Manage requirement (helps me by listing all the requirement inorder to give the best output).
3. Use component-based architecture (helps me work with in a flow so that I will not miss any process)
4. Visually model software (helps me visualize the model so that the application will be based on it and will not go out of planning)
5. Continuously verify software quality (helps me debug and fixes error inorder to maintain software quality).
6. Control changes to software (helps me change the features when new ideas will be generated).

(Kruchten, 2004)

6. Resource Requirements:

Technology used:

Programming: Dart, Framework (Flutter)

Software used:

For Development:

1. Visual Studio Code (for coding)
2. Android Studio (for Ide and platform)
3. Database (sq lite)
4. firebase

For Documentation:

1. Word (for documentation)
2. Lucid chart (for diagrams)
3. Balsamiq (for wireframe)
4. Draw.io (for diagram)

7. Work break down structure:

Project Category	Expected Starting date	Expected ending date	description
Project selection	2019/08/20	2019/09/8	This is the phase where i have analyzed the project and researched about it.
Requirement Gathering	2019/08/24	2019/09/20	During this phase I will be collecting the requirement of my projects.
Making wireframes and diagram	2019/09/22	2019/11/23	During this period, I will be making required wireframes and will draw the diagrams.
Coding	2019/11/24	2020/03/10	During this period, I will start coding for my project according to the module.
Debugging and testing	2019/11/24	2020/03/15	During this period, I will start debug my code and will check the errors and will do different tests.
Documentation	2020/02/15	2020/03/30	From this period, I will start documenting the projects.

Table 1 Work break down structure.

8. Gantt chart:

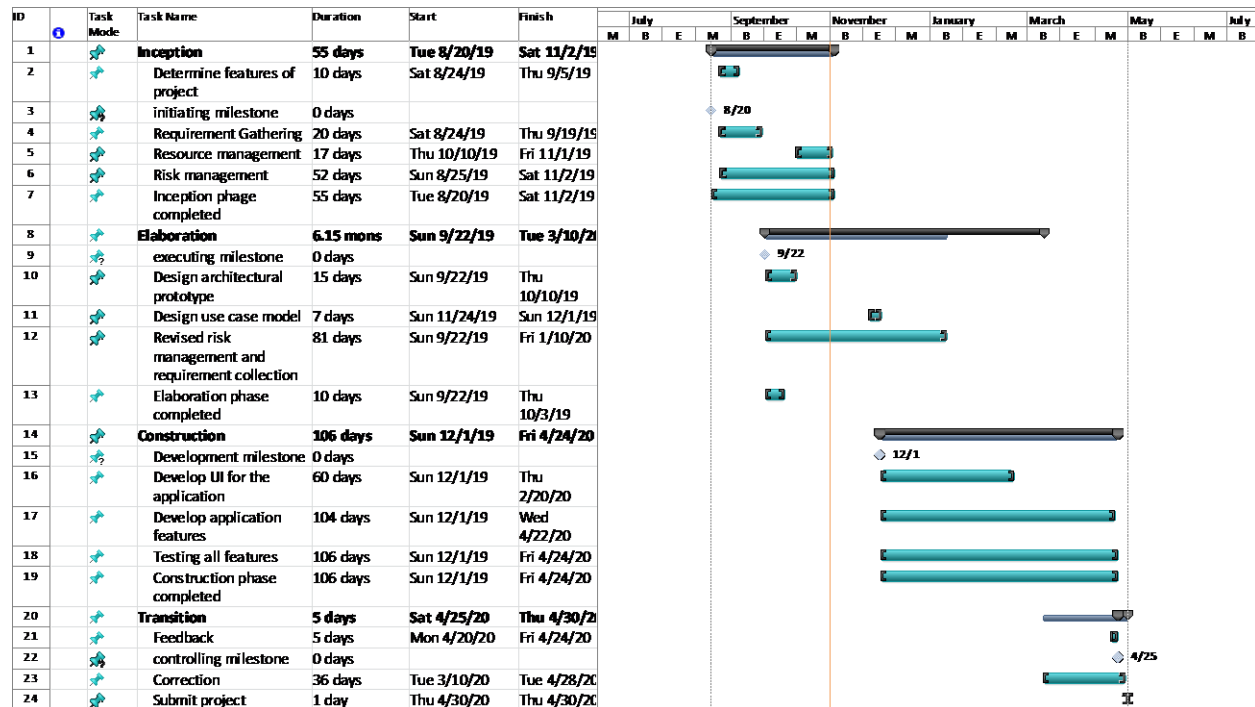


Figure 1 Gantt chart of project.

9. Mile Stones:

Milestones:

“Milestones by definition is a reference point that typically marks critical decision points. It doesn't refer to any duration but marks as important event in project task”. (Kashyap, 2019 march 8). Most of the time milestones are a form of achieving something great or reaching a level in a project management.

According to my Gantt chart my first milestone is at inception state after the project is selected and before all the requirements are gathered. Here in this milestone I planned for what types of materials are required and how the requirements can be collected. Another milestone is executing milestone where I planned for wireframes and designs of the application. What type of designs and structure will be best on this project? After this milestone I planned to start making the wireframes and prototypes for my application. After completing wireframes and diagram i will head on to development part. The next milestone in my project is in construction phase. In this milestone I planned about how to design UI and what process will help me to execute and develop the program. I tried to research about the implementation of all the features in the program in the best and proper way. The milestone is named as development milestone. The final milestone of the project is in the transition phage. Here in this milestone after the feedback of my supervisors about the project I planned how to correct the program and finalize it.

10. Conclusion:

In conclusion I would like to talk about the overall project scope and usefulness among people. Such application is very useful for all students and university. Due to high number of educational organizations It is hard to track the alumni after their graduate. College/University focuses on currently enrolled students record rather than their alumni. The reason is due to having a greater number of students and graduates. The application will help the college to create separate database of the alumni where their current job description and with personal details will be updated. The data will be updated because it is recorded according to the users update.

If the organization can track their alumni, then the college can know about new companies and new innovations done by their alumni's. this project has a lot of scope and important to the college/university.

11. Bibliography

Kashyap, S. (2019 march 8) What is a Milestone in Project Management (And How To Use it in Your Project). *What is a Milestone in a Project?*.

Kruchten, P. (2004) *The Rational Unified Process: An Introduction*. 3rd ed. New York: Addison-Wesley Professional, 2004.