Indian Institute of Information Technology Vadodara

Software Engineering
IT - 304
Team - 04 (DeepBench)

Project Plan

Team Members
Tarun Bhardwaj (Leader)
Monika Singh
Satyam Kumar
Shubham Poddar
Rajat Soni
Kshitij Khinchi

Objective:

The purpose of project planning is to identify the scope of the project, estimate the work involved, and create a project schedule. The project plan is then developed to describe the tasks that will lead to completion.The purpose of project monitoring and control is to keep the team and management up to date on the project's progress.

Two basic objectives:

1) Establish reasonable cost schedule and quality goods for the project.
   a) Estimation of time and effort.
   b) Skill level of team member
2) To draw out a plan to deliver the project goals.
   a) Proper planned schedule

Estimation:

With the help of COCOMO model we had estimated the time duration of our project and total effort required.

As our team (DEEP BENCH-IT04) has mixture of experienced and inexperienced members and has limited experience and unfamiliar with some aspect of android app development field. So we categories ourself as **semidetached** team.

Our estimated KDLOC (lines of code in thousands) is approx 6000.

Software Project	a	b	x	y
Organic	2.4	1.05	2.5	0.38
Semi-Detached	3.0	1.12	2.5	0.35
Embedded	3.6	1.20	2.5	0.32

Semidetached : $a = 3.0$ $b = 1.12$ $x = 2.5$ $y = 0.35$

Initial effort E_i $= a*(KDLOC)^b$

$$= 3.0(6.0)^{1.12}$$

$$= 22.31 \text{ PM}$$

Total duration time $= x*(Ei)^y$

$$= 2.5\,(22.31)^{0.35}$$

$$= 7.5 \text{ months.}$$

So, the total duration of the project is approximately **7.5 months** and effort estimated to complete our project is **22.31 PM**

Skill Level of Team Members:

Project team members are the individuals who actively work on one or more phases of the project.

Skills required for developing an Event Folio app are:

- Full of Creative ideas
- Good command on advanced java
- Designing well furnished UI for app
- Clear with concepts of database
- Communication and presentation skills
- Smart work + hard work
- Cooperative and able to manage whole team work properly

Skills our team members possess are:

Tarun Bhardwaj:

He has good command on advanced java language and have past experience in android app development. He can guide the team members to have a systematic and smart approach toward android development. Which is very essential for software engineering project. Have potential to debug the errors. He can properly manage and assign work to team members.

Monika Singh:

She has prior knowledge of java and android app development, good communication skills, good with designing UI part, can work hard and have a cooperative nature.

Rajat Soni:

He is very well clear with concepts of database and writing various queries. He has creative ideas and do lots of brainstorming to have clear idea of any project/concept.

Satyam:

He is very hardworking, on the same time have potential to learn and grab thing .Good at english vocabulary and have lots of questions ,which helps to identify mistakes and add any new features .

Shubham Poddar:

Good at Designing ideas, and work hard to learn concepts, have cooperative nature.

Kshitiz Khinchi:

He has good presentation skills, fluent with English.

Project Schedule

Based on the estimated duration of project completion , we came to conclusion and made our rough estimate project plan schedule, which follows:

Pre-development phase

Description: Selecting different project ideas ,thinking all its pros and cons, analysing every project deeply depending upon its feasible nature. We took almost 2 week of time to decide our final project after going through its feasibility test which includes technical, economic ,legal, environmental dimension.

After feasibility test, we started gathering requirements, through surveys, and personal interview. Preparing survey questions took 3 days and finalizing questions and preparing a google form took 2 day. We waited for 1 week for as many as responses we can record, at last we ended up with 106 responses.

Time Devoted   : 20 Days

Deadlines   : 18 Aug 2017 - 6 Sept 2017

Developing Phase

Requirement Analysis (10 days---- 10% of total effort)

Description: Analysis of all requirements gathered during pre development phase , which includes Survey through email to inter and intra colleges students, approaching different students personally.

Depending upon the response of students we have made our requirement analysis within 1 weeks.

Time Devoted   : 12 Days

Deadlines   : 6 Sept 2015 – 17 Sept 2017

Design(15 days ---- 30% of total effort)

      Description: We will go through different event app UI and required lots of brainstorming to collect as many required features we can put in our app, Deciding theme, look, style and proper position of different functionality and all layouts of each activity will takes at least 4 days.

Then designing the documents such as UML diagram(1 day), Activity model(1 day), ERD diagram(3 days).

      Time Devoted   : 15 Days

      Deadlines   : 24 Sept 2017 – 10 oct 2017

Coding and Unit testing(20days---- 25% of total effort)

      Description: The implementation part includes coding part of UI (different layouts),backend which involves creating database , connectivity of database with front end part, networking. Along with coding part , its also includes Unit testing to avoid as many as bugs we can. Backend part is assigned to Tarun Bhardwaj, Rajat Soni, Shubham Poddar. And front end part is assigned to Monika singh.

      Time Devoted   : 20 Days

      Deadlines   : 11 Oct 2017- 30 Oct 2017

Testing (7days ----10% of total effort)

      Description: After implementation of code , we decided to do testing process for every test cases possible and debug all errors so that code can run smoothly. This part will be mainly handled by Tarun Bhardwaj supported by Monika Singh ,Rajat Soni, Satyam, Shubham Poddar.

      Time Devoted   : 10 Days

      Deadlines   : 1 Nov 2017- 10 Nov 2017

Deployment (3 days ----5% of total effort)

      Description: After the app is fully implemented, the product is deployed using playstore by downloading its apk file.

      Time Devoted   : 3 - 4 Days

      Deadlines   : 11 Nov 2017 to 14 Nov 2017