ProP Project Plan

Group : 17
Students: Jharna Chhutari - 3259668
        Luay Shatara - 3504255
        Nidhi Sharma - 3233006
        Tra Nguyen - 3467848

Table of Contents

Project Statement

In this document we will discuss why our project started and what we will accomplish by the end. The topics that we will be going more in depth include: the formal client, the project leader and the team, the current situation, the problem description, the project goal, the deliverables and non-deliverables, the constraints and the risks.

Formal Client

Ms.Li Li L. is the formal client.
Rachelsmolen 1, Eindhoven
Room 2.38
li.li@fontys.nl
08- 850 79 556

Project Leader

Nidhi Sharma is the project leader. The rest of the team consists of Jharna Chhutari, Tra Nguyen, Luay Shatara.

Contact Information

Nidhi Sharma

Rachelsmolen 1, Eindhoven
Room 2.81
N.Sharma@student.fontys.nl
06 - 234 33 567

Current Situation

The client is planning to organize a musical festival which takes place on a big terrain. This space is provided for visitors, tents, stages and anything else that is required for the event. Part of this terrain is reserved for the camping ground, where visitors can stay for the night.

This event is organized by a commercial company, therefore profit is their biggest priority. They will make money from: visitors purchasing tickets to participate in the event, buying food, drinks or souvenirs during the event, loaning items such as camera, flashlight, etc. Before the event happens, visitors have to place their money on their account so that they can purchases products during the event. They can deposit their money through the website and by the ATM machines on the terrain which is provided by the bank. In addition, because the event will last more than one day, visitors can rent camping spots.

Problem Description

Since the event is well known it may draw many people towards the event. The client's problem in this case would be how to manage such a large crowd of people that come to this event. The client wants to manage this issue with the help of software solutions such as applications, websites and databases. Since the client doesn't have sufficient knowledge and skills in the field of ICT, the client then wants a team that has sufficient knowledge in this field. Our team will then work on these specific demands which will meet the requirement of the client.

Project Goal

The goal of our project is to plan and develop software solutions for managing large-scale events.
Therefore a website is needed for general informations, booking tickets and reserving camping spots. And several applications are also needed for managing the entrance, food and souvenirs shops, vending machines, (items lending stand),and of course a database in order to store and manage data for instance participants event balance or items remaining in lending stand stock.

Project Deliverables and Non-Deliverables

In this project the deliverables are:

- A website which provides information about the client's event, allows users to make reservations for entrance tickets and camping spots, to transfer money from their bank account to event-account, and to leave comments about their experience
- An application used for visitors check in/check out
- An application used for managing shops
- An application used for managing vending machines
- An application used for managing loan stands
- An application used for camping spot reservations
- An application used to check the overall status of the event
- An application to convert the information in the transaction-log-file to the database
- A database which supports all applications
- A process report
- A final presentation of the project

Non-deliverables:

- Source code of website and all applications
- Hardware of applications
- Event planning

Project Constraints

- The project must be completed in 14 weeks
- 900 hours of working time across 4 team members
- Limited to 4 team members, laptops, internet connection
- In this project, we use C# to program applications, Oracle database to build database design and HTML, CSS, JavaScript, and PHP to create the website
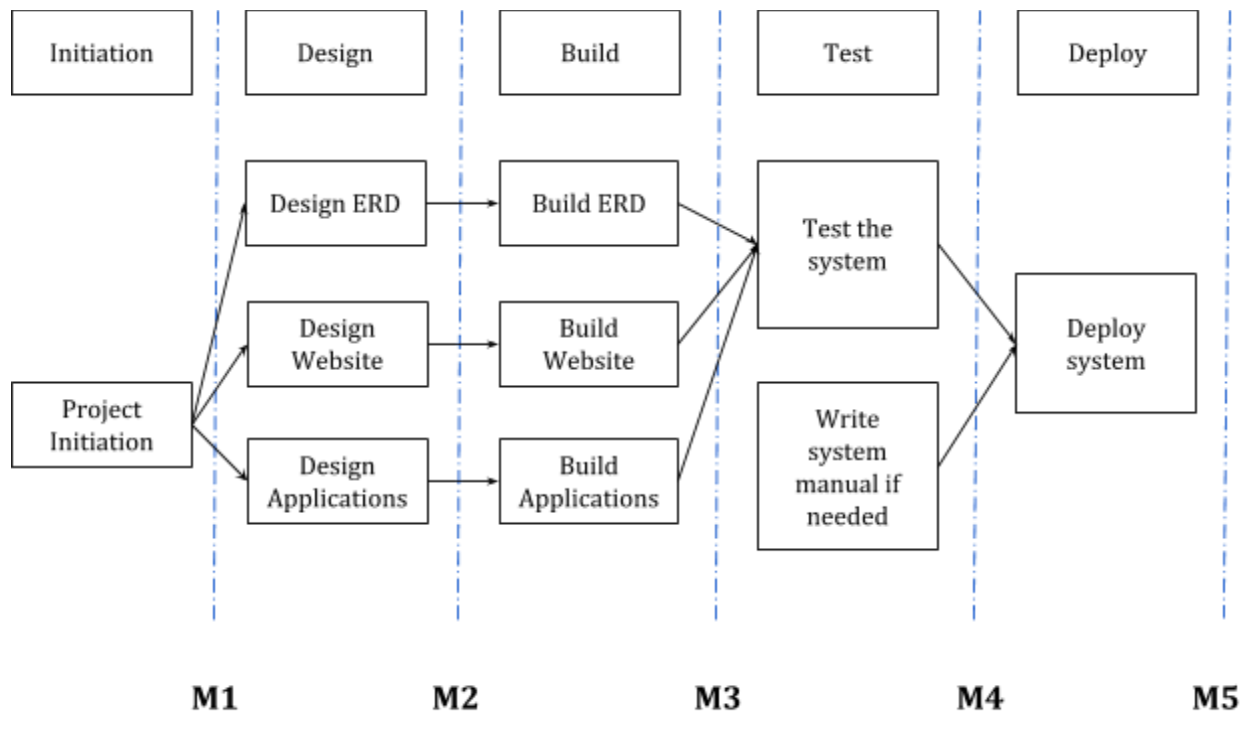- Version control system GIT is required

Project Risks

- Elapse of deadline without meeting deliverables
- Applications failure, due to human error.
- Illness of team member(s).

Project Phasing

In this chapter we will describe in detail the phases of our project, which are broken down into activities and milestones. In figure 1, a visual diagram of the phases along with their

activities and milestones are shown. The total duration time for the project will take 14 weeks.

Initiation		Design		Build		Test		Deploy

```
                Design ERD  →  Build ERD
                                           ↘
                Design          Build        Test the
                Website    →    Website  →    system
Project                                                   ↘
Initiation                                                  Deploy
                Design          Build      Write            system
                Applications →  Applications system        ↗
                                           if needed
```

M1   M2   M3   M4   M5

Phase 1: Initiation
The initiation phase is made up of one activity: project initiation

Activity: Project Initiation
1. Create a name and logo for the group
2. Prepare for the interview with the client
3. Kick-off meeting with the client
4. Divide work among team members
5. Complete the project plan
6. Note the agreements with the client

Estimated duration: 2 weeks
Deliverables for milestone M1:
● Group name and logo
● The project plan

Phase 2: Design

This phase consists of three main activities: designing the ERD, designing website and designing the applications.

Activity: Designing the ERD
1. List all entities and their identifiers, and attributes
2. Figure out relationships among entities and specify the maximum and minimum cardinalities
3. Complete entity-relationships diagram

Activity: Designing the website
1. Identify target audience
2. Setup document for website (sitemap, wireframe, visual design)

Activity: Designing the applications
1. Consider different types of users (member, team lead, or event manager)
2. List out all functionalities that the application must have (in accordance with the client's requirements) and may have (if resources are available)
3. Create UML class diagram
4. Design GUI

Estimated time: 3 weeks
Deliverables for milestone M2:
● ERD design for database
● Sitemap, wireframe and visual design for website
● GUI design and UML class diagram for applications
● Setup document

Phase 3: Build

In this phase, we focus on building the website, building applications and building the database design which supports both website and applications.

Activity: Build database design
1. Create a table for each entity, its primary key and attributes with appropriate data types
2. Based on relationships among entities in ERD, specify each table's foreign keys and logic to enforce maximum and minimum cardinalities

Activity: Build website
1. Build static website (HTML, CSS)
2. Upgrade website to fully functional (JavaScript, PHP, connecting to database)

Activity: Build applications
1.   Based on GUI design, create Window C# Form
2.   Based on UML class diagram, code all required classes to function the form

Estimated time: 5 weeks
Deliverables for milestone M3:
●   A database design
●   A fully functional website
●   Applications with all required functionalities

Phase 4: Test
This phase includes two activities: testing and preparing manual document if needed.

Activity: Testing
1.   Test all functionalities of applications and website
2.   Test the connection among applications, website, and database
3.   Writing manual (if needed)

Estimated time: 2 weeks
Deliverables for milestone M4:
●   Testing report
●   Manual document (if needed)

Phase 5: Deploy
In this phase, we deploy the system.

Activity: Deploy system
1.   Publish website, applications and database design
2.   Present the project to the client
3.   Finalize process report

Estimated time: 2 weeks
Deliverables for milestone M5:
●   Website, applications and database design that work properly and meet the client's requirements
●   Presentation about the project
●   Process report