

Hip-Hop Music Festival

Project Plan

Course: Project P-phase

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Group: 8

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Table of Contents

Project Statement	3
Purpose of Plan	3
Formal Client	3
The Team (Project Leader & Members)	3
Current Situation	3
Problem Description.....	3
Project Goal	3
Project Deliverables and Non-Deliverables.....	4
Project Constraints	4
Project Risks	5
Project Phasing	6
Phase 1: Initiation.....	6
Phase 2: Design	7
Phase 3: Build	8
Phase 4: Testing.....	9
Phase 5: Closing.....	9

Project Statement

Purpose of Plan

The SoftSolution Project Plan will provide the meaning and the objectives of this project. The following topics will be reported in this chapter: the client, the project leader, current situation, problem description, the goal of this project, the project deliverables and non-deliverables, constraints and risks. Additionally, this Project Plan will serve as an agreement between the following groups: the Project Leader, the Project Team, the Project Sponsor and other groups affected by and/or associated with the project.

Formal Client

Mr. Frank de Lepper, event organizer at Fontys University of Applied Sciences, located in Eindhoven will be the formal client in this project.

Contact information

Frank de Lepper
f.delepper@fontys.nl
Room 2.37, Rachelsmolen 1, Eindhoven

The Team (Project Leader & Members)

Mr. Marc Dañe of the project department from SoftSolution will be the project leader. Mr. Dañe will be working alongside with the following group members: David van Rijthoven, Nguyen Vu Nhan and Youssef Belganche.

Contact information

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Current Situation

SoftSolution was approached by Mr. Frank de Lepper. Mr. de Lepper wants to organize a Music Festival, but the event will have a lot of visitors and will be impossible to manage the event with pen and paper. So, Mr. de Lepper has asked SoftSolution to develop a software solution to manage the Music Festival more efficiently. The Music Festival will be held for profit on the first weekend of August 2018 in Park Kuierpad, Wezuperburg in the Netherlands.

Problem Description

Due to a large increase in visitors it has become impossible for the commercial company represented by Mr. de Lepper to manage the Music Festival with only pen and paper.

Project Goal

The goal of this project is to develop a software solution to streamline the management of the Hip-Hop Music Festival that Mr. de Lepper has organized.

Project Deliverables and Non-Deliverables

In this project the deliverables are:

- Check-In/Check-Out Application
 - Application (".exe" file) that allow staff members to easily check visitors in and out of the event and camping sites
- Store Application
 - Application (".exe" file) for selling food/drinks/souvenirs at the event that can be easily used by staff members and should automatically change the balance of a user based on what is bought
- Loan Application
 - Application (".exe" file) for loaning certain items at the event that can be easily used by staff members and should automatically change the balance of a user based on what is loaned
- Manager Application
 - Application (".exe" file) to show the current event status overview of the event
- ATM Application
 - Application (".exe" file) to update visitor's currency depended on ATM log files
- Event Website
 - Website to allows users to read about the event and register for tickets and camping spots
- Back-End Database
 - A database that connects everything together, stores visitor's information and is supporting all the applications
- Add Visitor Application
 - Application (".exe" file) to register clients at the entrance of the event

In this project the non-deliverables are:

- User manuals for the delivered applications
- Training course for the users on the use of the delivered applications
- Source code of the delivered applications
- Hardware for the delivered applications

Project Constraints

Constraint 1: English Language

The applications and the website should be developed in the English language.

Constraint 2: Oracle Database

The DBMS used must be the Oracle Database.

Constraint 3: Iris Server

The website should be hosted on the Iris Server.

Constraint 4: C# Programming Language

The applications should be developed using C# programming language.

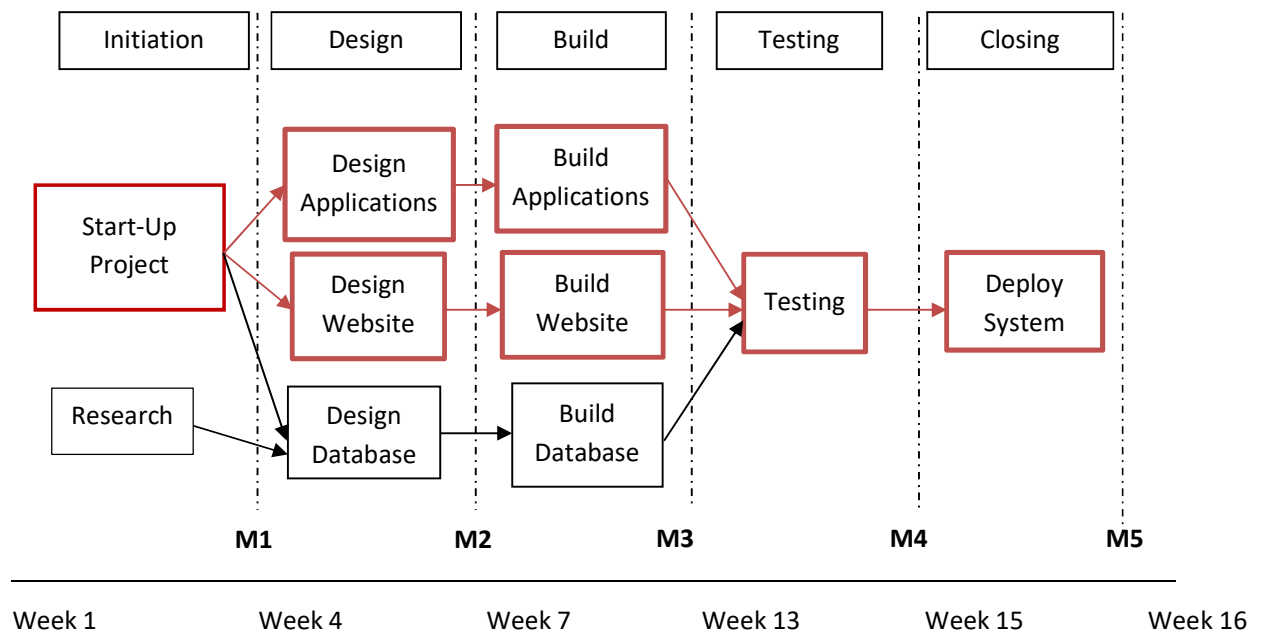
Project Risks

Risk	Probability	Impact on Project	Mitigation Strategy
Project Leadership			
Lack of Commitment Attitude of Management	Low	Medium	Seek feedback to ensure continued support
Lack of Commitment Attitude of the Team	Low	Medium	Seek feedback to ensure continued support
Project Leader's Procedure used Foreign to Team	Low	Low	N/A
Project Staffing			
Project Team Availability (1)	Medium	Medium	Increase commitment level for all team members
Physical Location of Team Prevents Effective Management (2)	High	Low	Use of online services to communicate & work better
Team's Poor Working Relationship	Low	Medium	Learn to work together
Project Definition			
Time Estimate Unrealistic	High	Medium	Be realistic as possible when planning, weekly reviews
Project Files Disorganization	Medium	Medium	Use of a version control system
Requirements Not Properly Defined (3)	Low	Medium	Seek feedback to ensure that the project is on the right track
Working Environment			
Team's Lack of Knowledge on Software Development	Low	Medium	Assist Team in understanding of Software Knowledge
System Outages (4)	Low	Low	N/A
Software Solution Not Compatible with Client's Hardware	Low	Medium	Detailed Requirement Document for Client

- (1) *Project Team Availability:* Team members could not be available to do their work for a short period of time, e.g. hospital leave and child care leave.
- (2) *Physical Location of Team Prevents Effective Management:* Team members will often work from their homes and this will prevent effective management.
- (3) *Requirements Not Properly Defined:* Team will have different goals than the Project Leader and Project Client.
- (4) *System Outages:* Obstructions in infrastructure that prevents optimal working conditions, e.g. power outages and internet outages.

Project Phasing

In Project Phasing the phases of this project, together with their respective activities and milestones will be described. The total project will take 15 weeks to complete.



Phases and their Activities

Phase 1: Initiation

The Initiation phase has two activities: *Start-Up Project* and *Research*.

This phase will take three weeks.

Activity: Start-Up Project

Tasks for this activity are:

- Meeting with Mr. de Lepper regarding the delivered Setup Document v1.0
- Discuss the Setup Document v1.0 with Mr. de Lepper
- Come to an agreement on the Setup Document
- Improve Setup Document based on feedback

Estimated duration is two weeks.

Activity: Research

Tasks for this activity are:

- Research various Database Management Systems (DBMS)
- Research Identification Methods: RFID-Chip, Barcode & QR-Code
- Choose DBMS and Identification Method best suited for project and add to Setup Document

Estimated duration is one week.

Deliverables for milestone **M1** are:

- Setup Document v2.0

Phase 2: Design

The Design phase has three activities: *Design the Applications*, *Design Database* and *Design Website*. This phase will take three weeks. All activities will run parallel to each other in the three weeks. *

Activity: Design the Applications

Tasks for this activity are:

- Make a GUI for Event&Camping Check-In/Check-Out Application based on Setup Document
- Make a GUI for Food-/Drinks-/Souvenir Application based on Setup Document
- Make a GUI for the Manager Application based on Setup Document
- Make a GUI for the Loan Application based on Setup Document
- Make a GUI for the ATM Application based on Setup Document
- Get regular feedback from Mr. de Lepper on current applications designs

Estimated duration is three weeks. *

Activity: Design Database

Tasks for this activity are:

- Make an Entity Relationship Diagram (ERD) based on the Setup Document
- Improve ERD if there is new development in the project.

Estimated duration is three weeks. *

Activity: Design Website

Tasks for this activity are:

- Make the Visual Design of the website based on Setup Document (HTML & CSS)
- Get regular feedback from Mr. de Lepper on current Website Design

Estimated duration is three weeks. *

Deliverables for milestone **M2** are:

- GUI for the Check-In/Check-Out Application
- GUI for the Store Application
- GUI for Loan Application
- GUI for Manager Application
- GUI for ATM Application
- Entity Relationship Diagram for the Database
- Static Website

Phase 3: Build

The Build phase has three activities: *Build the Applications*, *Build Website* and *Build Database*.

This phase will take six weeks. All activities will run parallel to each other in the six weeks. *

Activity: Build the Applications

Tasks for this activity are (for all the applications):

- Fill Application with appropriate classes and methods
- Implement Logic
- Finalize Application

Estimated duration is six weeks. *

Activity: Build Website

Tasks for this activity are:

- Add Java-Script to website
- Add PHP to website
- Finalize Website

Estimated duration is six weeks. *

Activity: Build Database

Tasks for this activity are:

- Make Relational Database based on the Entity Relationship Diagram
- Connect all applications to the database
- Connect website to the database

Estimated duration is six weeks. *

Deliverables for milestone **M3** are:

- Relational Database
- Check-In/Check-Out Application with Database connection
- Store Application with Database connection
- Loan Application with Database connection
- Manager Application with Database connection
- ATM Application with Database connection
- Website connected to Database

Phase 4: Testing

The Testing phase has one activity: *Testing*.

This phase will take two weeks.

Activity: Testing

Tasks for this activity are:

- Write a Test-Plan
- Test applications, website and database using Test-Plan
- Document all test results
- Improve applications, website and database based on test results
- Re-do Test-Plan & Improve based on results till ideal results are achieved

Estimated duration is two weeks.

Deliverables for milestone **M4** are:

- (Robust)Relational Database
- (Robust)Check-In/Check-Out Application
- (Robust)Store Application
- (Robust)Loan Application
- (Robust)Manager Application
- (Robust)ATM Application
- (Robust)Website
- Test-Plan with results

Phase 5: Closing

The Closing phase has one activity: *Deploy System*.

This phase will take one week.

Activity: Deploy System

Tasks for the activity are:

- Setting the website for public use
- Make Database run in the background
- Delivering the final version of all the applications to Mr. de Lepper.

Estimated duration is 1 week.

Deliverables for milestone **M5** are:

- Deployed system (Database and Applications)
- Deployed Website