

Software Project Management Plan (SPMP)

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1 Introduction

1.1 Project Overview

A Woman is not much powerful when compared to men physically, in a crisis situation and needs a helping hand to relieve them. The best way to minimize chances in becoming a victim of violent crime (robbery, sexual assault, rape, domestic violence) is to identify and call on resources to help you out of unsafe situations. Whether you are in instant trouble or got separated from friends during night and do not know how to get home, having these apps on your phone can diminish your risk and bring assistance when you require it .Here, we introduce an android app that ensures the safety of women. It reduces the risk and helps us in need by identifying the location of person who is in danger. There is scope for future development of this project. The world of computer fields is not static; it is always subject to be dynamic. The technology which is famous today becomes outdated the very next day. To keep abstract of technical improvements, the system may be further refined. So, it is not concluded. Yet it will improve with further enhancements. Enhancements can be done in an efficient manner. We can even update the same with further modification establishment and can be integrated with minimal modification.

1.2 Project Deliverables

Delivery ID.	Deliverables/work products	Delivery Date
D1	Software Requirements Specifications	19 Aug 2020
D2	System Design Document	24th Aug 2020
D3	Software Project Management Plan	22 <u>sept.</u> 2020

2 PROJECT ORGANIZATION

2.1 Software Process Model

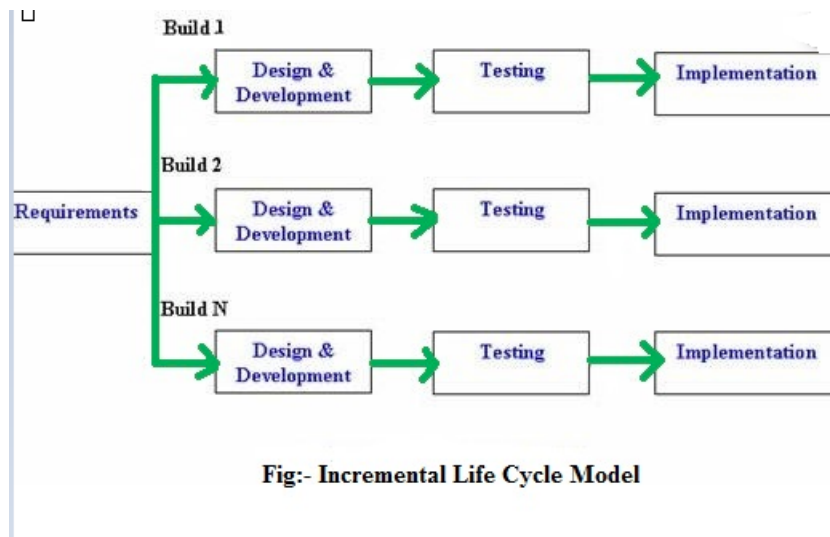


Fig:- Incremental Life Cycle Model

In case of incremental model the requirement is divided into many builds. Multiple development cycle take place, making life cycle a "Multi-waterfall cycle". Cycles are further divided into smaller, more easy to manage modules. In this model, each module passes through the requirements, design, implementation and testing phases. A working version of software is produced during the first module, so you have working software early on during the software life cycle. Each release of the module adds function to the previous released working model. This is continued till a complete system is found.

2.2 Roles and Responsibilities

Name : TRUNESH LOKE Roll No.:1824008 Role: Developer

Name: PRERNA SINGH Roll No.:1514053 Role: Designing

Name : HITANSHU GALA Roll No: 1824003 Role: Testing

Roles	Responsibilities
Project Manager	Assigning supervising the work according to requirements
Designer	Development of layout of project
Web Developer	Generation of forms for web app
Android/IOS Developer	Generation of mobile application
Tester	Tests the mobile app and web modules
Estimation Team	Estimates the cost and time required for the project
Team Leader	Manages all the tasks and schedules the deadline

2.3 Tools and Techniques

2.3.1 Software Tools

Front End Software Requirement

1. Android studio:-

In this project we used Android Studio offers even more features that enhance your productivity when building Android apps, such as

- a. A flexible gradle based system.
 - b. Build variants and multiple apk file generation.
2. JDK(Java Development Kit) 7
 3. JRE(Java Runtime Environment)
 4. Windows or Linux Operating system

Back End Software Requirement

1. PHP
2. MySQL

Hardware Requirement :

Hardware Required for Implementation

1. Device with GPS support
2. Device with Text messaging support

Hardware Requirement for Deployment

RAM : 4GB minimum or more Processor : Intel i3 minimum or more

Disk Space : 500 MB for Android Studio , atleast 1GB for Android SDK

3 PROJECT MANAGEMENT PLAN

3.1 Tasks

Task ID.	Task Description	Deliverable and milestone
T3.1.1	Gather requirements of Client	20th July 2020 - 24th July 2020
T3.1.2	Developing a designed prototype	27th July 2020 - 30th July 2020
T3.1.3	Software Project Management Plan	1st Aug 2020 - 22nd Aug 2020
T3.1.4	Preparing Software Design Document	24th Aug 2020 - 31st Aug 2020
T3.1.5	Developing Application	5th September 2020 - 1st November 2020

3.2 Description

- 1) The personal safety application requires the name and number of the person who is to be contacted in times of emergency.
- 2) Users can add multiple people in the emergency contacts list.
- 3) These are the people who will receive notifications or SMS in case of an emergency. All it requires is the user's action to trigger an emergency tracker button provided and it shoots messages as fast as the device can manage.
- 4) Once the emergency tracker button is hit, the people in the emergency contacts will get a message like: I am in an emergency; followed by another message, which has the exact or approximate GPS location of the cell phone.

5)The user can also make audio or video call. This app also provides necessary first aid measures that should be taken at the time of emergency situations.

3.3 Deliverables and Milestones

DELIVERABLES:-

- 1)The app will be able to work optimally during the need of an emergency.
- 2)The call quality will be excellent and audible during the emergency.
- 3)The portal will not crash when multiple users are calling/using simultaneously.
- 4)Login portal will provide total authentication.

MILESTONES:-

The app keeps a target of 500 users in the initial stage to test it properly.

3.4 Resources Needed

Android , Windows , Linux

3.5 Dependencies and Constraints

- 1)The dependencies are as follows: For Backend processing, MySQL and PHP is being used.
- 2)The back- bone structure of the system is developed by making MySQL and PHP.
- 3)MySQL is one of the best RDBMS being used for developing web-based software applications. MySQL is very friendly to PHP, the most appreciated language for web development. PHP is a server side scripting language.

3.6 Risks and Contingencies

1)This app will need continuous access to Internet for tracking location. If the victim is in danger it is not possible to touch the button to give alert.We can solve it by providing SMS feature without internet and making app more feasible to use.

2) The app will need proper network connection to place a call which is not possible in all the regions and the call will not placed We can solve it by providing online calling system as provided by whatsapp.

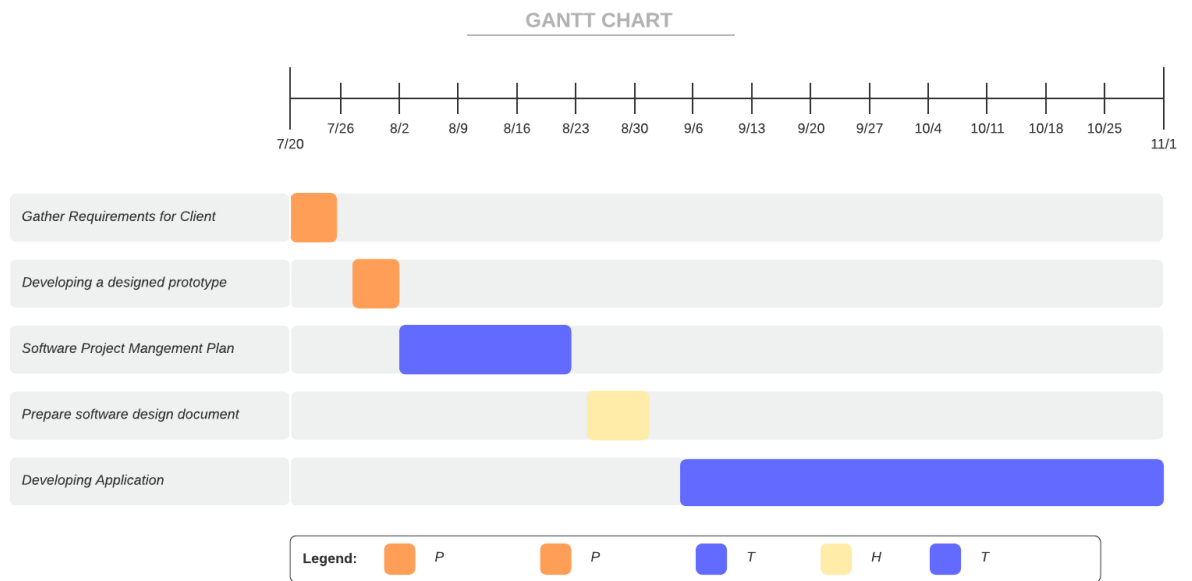
3.7 Assignments

Task ID.	Task Description	Member
T3.1.1	Gather requirements of Client	Prerna
T3.1.2	Developing a designed prototype	Prerna
T3.1.3	Software Project Management Plan	Trunesh
T3.1.4	Preparing Software Design Document	Hitanshu
T3.1.5	Developing Application	Trunesh

3.8 Timetable

Task ID.	Deliverable and milestone
T3.1.1	20th July 2020 - 24th July 2020
T3.1.2	27th July 2020 - 30th July 2020
T3.1.3	1st Aug 2020 - 22nd Aug 2020
T3.1.4	24th Aug 2020 - 31st Aug 2020
T3.1.5	5th September 2020 - 1st November 2020

3.9 Gantt chart



3.10 Questions

3.10.1 Can a project be undertaken without a plan? What are the possible consequences?

Project managers have a saying: if you fail to plan, you're just planning to fail. Here's why.

The execution plan, or more broadly, any kind of plan, is the set of steps you intend to take to accomplish something

Missed deadlines.

Cost over-runs.

Frustrated team members.

Scope changes.

Missed expectations with scope.

Quality problems.