Project Plan

Watch Yourself

wearable personal safety app

Team Phoenix:

Alisha Zaveri (300912073)

Jaismeen Sandhu (300877728)

Lawrence Martin (300782358)

# 

# Overview

Today we use our smartphones to do everything from calling to playing games and searching whatever you want at any place. We can even make our phone a remote control and a security device too with various safety apps.

What will happen if you don’t have your phone in your hand in case of extreme emergency or during a safety concern?

How about operating your device’s safety features or alerting your friends and family from your smart watch? Sounds good right! That’s what our app “Watch Yourself” do for users. “Watch Yourself” app users can download it on their mobiles and they can use this app from their smartphones as well as from Samsung Smart Watch.

This app is having various features such as

1. Video/Audio recording
2. Personal Alarm
3. Emergency Call
4. Emergency Text Alerts
5. Share Location

# Goals and Scope

## Project Goals

| **Project Goal** | **Description** |
| --- | --- |
| **Functional Goals:** |  |
| Compatibility | App should work on any android phone with OS Android KitKat 4.4(API 19) and above. |
| Network Accessibility and Operation | App should be to able make network connection and run online/offline |
| Layout | App with Adaptive UI layout for portrait and landscape |
|  |  |
| **Business Goals:** |  |
| Deployment Timeline | Project should be deployed to the google play store before 14th December 2016 |
| Target Gear users to purchase our App | We have target of at least 1000 gear users to purchase and use our app |
|  |  |
| **Technological Goals:** |  |
| Runtime Permissions | App should be able to Handle runtime permission for devices run on API 23 and above |
| SDK Integration | App should be able to communicate between mobile app and Samsung Gear without delay and with ease |
|  |  |
| **Quality Goals:** |  |
| Enhanced GUI | In app , Fonts, color contrasts, alignments, and layouts should be able to support content structure, and enhance legibility to provide a very good user experience |
|  |  |

## Project Scope

Project Scope will include:

1. Requirements Analysis
2. Mockups
3. Architectural Designs
4. Android Mobile App supporting android phones with OS Android KitKat 4.4(API 19) and above
5. Samsung gear watch SDK integration with mobile app
6. Supporting 5 features
   1. Video/Audio recording
   2. Personal Alarm
   3. Emergency Call
   4. Emergency Text Alerts
   5. Share Location

# Project Team

| **Name** | **Project Role** | **Project Responsibilities** |
| --- | --- | --- |
| Haki Sharifi | Project Sponsor | * Defining the requirements * Validation of requirements and signing off the final product |
| Jaismeen Sandhu | Project Manager | * Management of the project * Building the schedule and tracking the compliance with the schedule and timelines |
| Lawrence Martin | Lead Developer | * Development of the app * Testing and handling the after deployment support |
| Alisha Zaveri | App Designer and Tester | * Market and technical research for the app * Designing of the app * Building the prototype * Unit Testing * Integration Testing |

# Schedule and Budget

## Work Breakdown Structure

Gantt Chart is Attached with document in PDF format – “Watch Yourself Android App Development Plan\_GanttChart.pdf”

.

## Schedule and Milestones

| **Milestones** | | **Description** | **Milestone Criteria** | **Planned Date** |
| --- | --- | --- | --- | --- |
| M0 |  | Start Project | Scope Defined, Team Selected | 09/16/2016 |
| M1 |  | Requirement Analysis complete | Analysis done and timeline developed | 09/21/2016 |
| M2 |  | Initial Documentation Complete | Project Plan, Charter, Scope | 10/5/2016 |
| M3 |  | Design Complete | Prepare Design Documents  Make Architecture diagrams  Mockups  Prototype | 10/12/2016 |
| M4 |  | Development Complete | Code development, App GUI development, Debugging | 10/28/2016 |
| M5 |  | Testing Complete | Unit Testing  Integration Testing | 11/18/2016 |
| M6 |  | Release Product | Beta Release | 11/24/2016 |
| M7 |  | Close Project | App Deployment | 12/13/2016 |

## Development Process

Module 1: Video and Audio Recording Feature

Module 2: Emergency Text Message and Calling Feature

Module 3: Integration with Samsung SDK

Module 4: Panic Alarm Feature

Module 5: Testing Process

## Development Environment

| **Item** | **Applied for** | **Availability by** |
| --- | --- | --- |
| **Methods** |  |  |
| Use case | Requirements gathering | M0 |
| Architectural Diagrams | Application Data Flow | M0 |
|  |  |  |
| **Tools** |  |  |
| IntelliJ IDE + Android Studio v. 2.2 | Development | M1 |
| Sketch | Design | M0 |
| Emulators   * Android Mobiles * Samsung Gear S2 Classic Smartwatch | Testing | M1 |
| Tizen Studio | Watch Development IDE | M1 |
| Samsung Accessory SDK v. 2.4.0 | Integration of Mobile and Watch | M1 |
| **Languages** |  |  |
| XML | App GUI | M0 |
| Java | Development | M1 |
| Nodejs | Client-Server Communication | M1 |
|  |  |  |

## Timeline

09/27

09/29

11/03

12/15

Development Completed

Developed

Prototype

Requirements Analysis

Completed

Project Plan

Completed

11/24

12/8

App Demo

App Deployment

Completed

# Risk Management

1. **Schedule Variance:** 
   1. Priority: Critical
   2. Actions: If any team member will be unable to complete the tasks on time then with the discussion with team, if the reason for the delay is personal then team member will be given some more time to complete his/her task. Even then if team member is unable to submit the task on next due date, task will be divided into other team members and this event will be logged into issues sheet.
   3. Responsible: Assigned Personal
2. **Technical Failures:**
   1. Priority: High
   2. Actions: Help will be taken from technical forums even then if issue persist help from technical professional will be taken
   3. Responsible: Project Team

# Communication and Reporting

| **Type of Communication** | **Method / Tool** | **Schedule** | **Information** | **Participants** |
| --- | --- | --- | --- | --- |
| **Communication and Data sharing:** | | | | |
| Project Meetings | Physical availability | Weekly and on event | Project status, problems, risks, changed requirements | Project Manager Project Team |
| Documents Sharing | Google Drive |  | All the documents prepared, final drafts |  |
| Github | Github Public Repository | Initial Commit and if any changes in code | LMart15/watch-yourself  **https://github.com/LMart15/watch-yourself** | Project Manager Project Team |
| Milestone Meetings | Hangout , Whatsapp | Before milestones | Project status (progress) | Project Manager Project Team |
| Final Project Meeting | Physical availability | Before project submission | Final submission, experiences, lessons learnt | Project Manager Project Team |
| **Reporting:** | | | | |
| Project Report | E-mail | Weekly | Project status - Progress - Issues | Project Manager Developer  Designer |

# Delivery Plan

## Deliverables and Receivers

| **ID** | **Deliverable** | **Planned Date** | **Receiver** |
| --- | --- | --- | --- |
| M1 | Project Plan, Architectural Design, and Mockups | 10/07/2016 | Project Sponsor |
| M2 | Prototype, UI implementation, and implementing selected functionality | 11/03/2016 | Project Sponsor |
| M3 | Junit Testing, Beta release | 11/24/2016 | Project Sponsor |
| M4 | App code on cloud, Demo of App on tablet as well as on Mobile | 12/08/2016 | Project Sponsor |
| M5 | Final Submission and Presentation, Deployment of app in Play store | 12/15/2016 | Project Sponsor |

# Revision

|  |  |  |  |
| --- | --- | --- | --- |
| Rev. ind. | Chapter | Description | Date |
| 1 | - | Original version | 10/07/2016 |
|  |  |  |  |
|  |  |  |  |