Software Requirements Specification

for

Project Marauders

Version 1.0

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**TABLE OF CONTENTS**

Table of Contents ii

Revision History ii

1. Introduction 1

1.1 Purpose 1

1.2 Document Conventions 1

1.3 Intended Audience and Reading Suggestions 1

1.4 Scope 1

1.5 References 1

2. Overall Description 2

2.1 Product Perspective 2

2.2 Project Functions 2

2.3 User Classes and Characteristics 2

2.4 Operating Environment 2

2.5 Design and Implementation Constraints 3

2.6 User Documentation 3

2.7 Assumptions and Dependencies 3

3. External Interface Requirements 4

3.1 User Interfaces 3

3.2 Hardware Interfaces 3

3.3 Software Interfaces 3

3.4 Communications Interfaces 4

4. Other Nonfunctional Requirements 4

4.1 Performance Requirements 4

4.2 Safety& Security Requirements 4

4.3 Software Quality Attributes 4

4.4 Business Rules 4

5. Other Requirements 4

Appendix A: Glossary 5

Appendix B: Analysis Models 5

Appendix C: To Be Determined (TBD) List 5

**Introduction**

**1.1Purpose**

*The purpose of this document is to describe detailed Software Requirements Specifications (SRS) for developing the Web Application for PopcornApps Software Pvt. Ltd. Detailed features of the application are described below in section 2.2. Using PhoneGap framework, (a mobile application development framework) we will be wrapping the application and deploying into IOS and Android platforms as well.*

*Our product is an employee engagement web application. This particular application has been devised for the employees of a particular company where their workload could be managed. There would be features like attendance, leave requests, polling etc. The scope of the product for now is only for the employees of a particular company but could be further increased to a global scope i.e. people who would like to manage their workforce and workload.*

**1.2Document Conventions**

*SRS: Software Requirements Specification  
PhoneGap: Mobile Application development framework  
IOS: (iPhone Operating System), an operating system used for mobile devices manufactured by Apple Inc.*

* SRS: Software Requirements Specification
* PhoneGap: Mobile Application development framework
* IOS: (iPhone Operating System), an operating system used for mobile devices manufactured by Apple Inc.
* AWS: Amazon Web Services
* LAMP stack: Software stack consists of Linux, Apache, MySQL and PHP

**1.3 Intended Audience and Reading Suggestions**

*Anyone with technical background (especially on the web and mobile platforms) such as developers, project managers, marketing staff, users, testers, document writers and those who is willing to contribute to the project (by means of sponsor it).The document should be read in the order of contents displayed.*

*The document thus devised is intended for our client, our course incharge ,and also for the design and code testers, the marketing team and also for the users, along with the people who would be interested in buying our application or sponsoring it for further developments.*

**1.4 Scope**

*Scope of the project is to design and develop the Employee Engagement Web Application that will be wrapped using PhoneGap to deploy onto IOS and Android platforms. Detailed scope is defined in section 2.2 of this document*.

*The software product of employee engagement is being developed keeping in mind the requirements any company faces whilst managing and keeping their employees interested in their work. This software basically adds all of the company's employees to its application and also looks into various details like*

* *Attendance*
* *Salary status*
* *Polls for anything new the company wants to introduce.*
* *New updates*
* *Project details and updates*

*This software basically fulfils the objective of the company to keep its employees interested in whatever work they do and keep them motivated throughout the day. This ensures that the employees and the company have a smooth functioning and communication resulting in the company's success.*

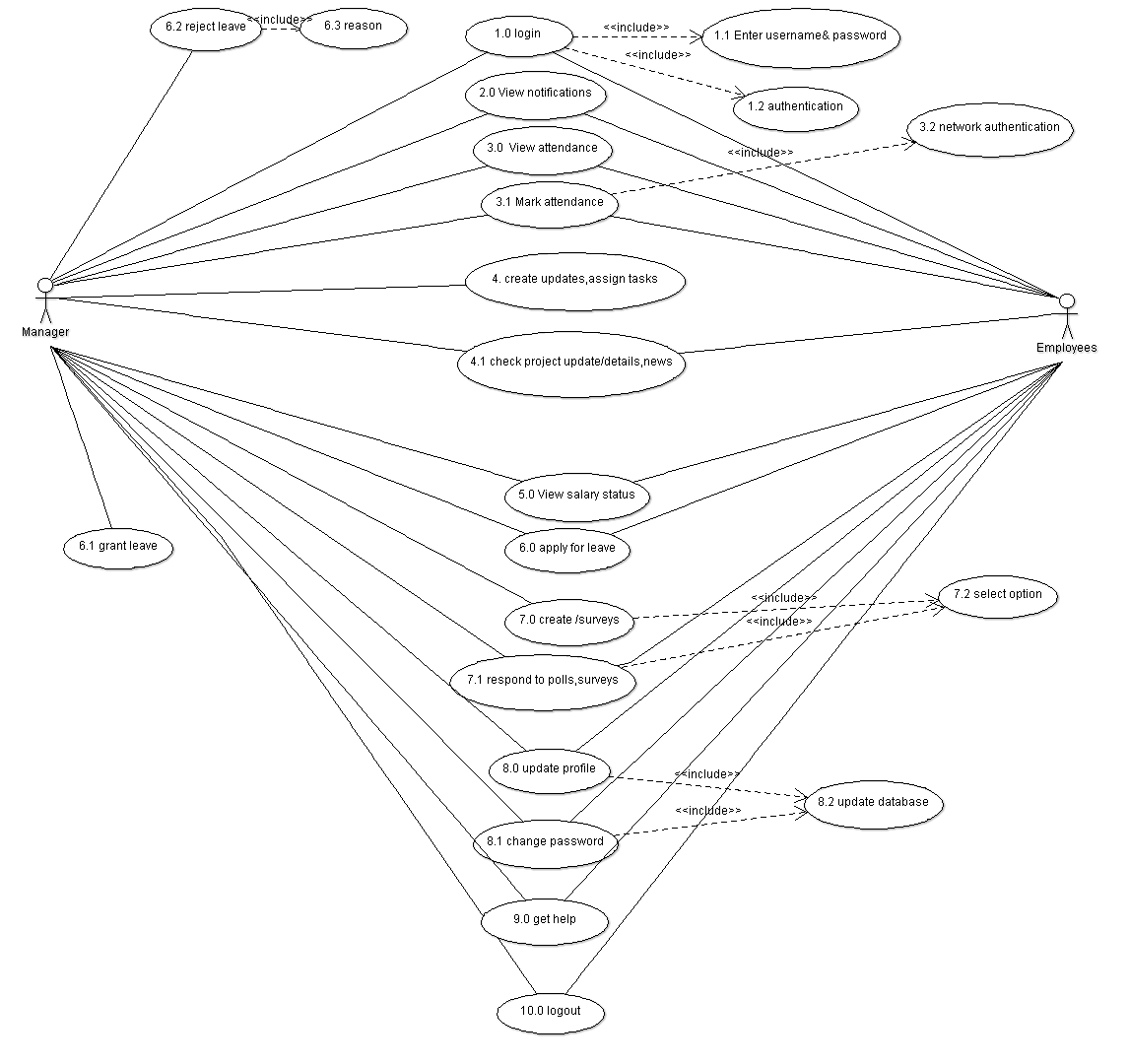
**1.5 References**

*PhoneGap: A mobile application development framework by Adobe.* [*http://phonegap.com/*](http://phonegap.com/)

**Overall Description**

**1.6 Product Perspective**

*This Employee Engagement Application is a self-contained application. It maintains its own database and does not depend on any external systems to GET or POST data. Below diagram explains in detail.*



**1.7 Project Functions**

*1.Manager/Employee Login:The user must login using their unique user ids and passwords upon success they will be allowed to access their notifications etc.All the users would exclusively employees of the registered company.*

*2.Attendance:The user will be granted attendance provided they log on to the application using the company's network and also within the specified time.*

*3.Salary status:Users may check their salaries for eg: if a user has taken a loan then he/she can check the interest being cut from their salary and can see the remaining amount which they would receive.Taves can also be calculated*

*4.Leave application:An user may apply for a leave upon which a notification would be sent to the manager concerned who would then decide whether to approve the leave or reject it with a reason.The manager will also be able to see the number of leaves the employee has taken within a given duration and the type of leave taken.*

*5.Feedback/polling/survey:If the comany wants to launch a new product it can take a poll to colloect its employees feedback*

*6.Updates about :events,projects,new employees, any changes in the company. Any new updates regarding the company like any new employee who has joined, or an appreciation to a particular employee for having managed a task very well or even updates regarding certain events that the company participates in like any marathon or any function etc. could be provided. Project details like the project the employee may work on , their manager and team members, the objectives to be fulfilled and their performance could be tracked.*

*7.Message will be sent to the user's phone if any one tries to access their account with the wrong password three times.*

**1.8 User Classes and Characteristics**

*The expectation of people using this software is expected to be with the organization having employees ID/number. This application would be highly useful to large organizations as it will become easy to manage and communicate with its employees.*

**1.9 Operating Environment**

This web application operates on a LAMP stack Standard Operating Environment in AWS medium instance. Entire application is hosted on this single instance. No other dependencies are there.

**Design and Implementation Constraints**

*NONE*

**1.10 User Documentation**

*The software is self sufficient and does not need any tutorials or any external help.But for the convinience of the user, an additional document containing the user flow will be attached.It will be included in the help tab of the application*

**1.11 Assumptions and Dependencies**

*Assumptions:*

* *Data transfer, synchronization/migration is out of scope of this project.*
* *Before starting the project, PopcornApps will give device matrix that the app should support*
* *PopcornApps to provide sample employee data to test the application*
* *PopcornApps to provide timely feedback*

*Dependencies:   
  
None*

**2.0 External Interface Requirements**

**2.1 User Interfaces**

*This is maintained as user friendly as possible.. However, a lot priority has been given to avoid third party and not genuine plugins to avoid any issues which could cause any unauthorized access or hampering of data. The work flow of the software is also in sync with the functionalities listed. However, for any user to access the information, a login page will be in its rightful place. The software is so designed to inform the user on his/her mobile phone via a message if the account of the specific user has been tried to access with wrong pass codes 3 times in a row.*

**2.2 Hardware Interfaces**

*No external or extra hardware components are required to facilitate the functionality of this application.*

**2.3 Software Interfaces**

*The only possible way to login to the application will be the usename and password,username will be unique for every employee.All the functions mentioned inside the software will be accessed by authorized users only.It will also be a platform independent system allowing the users with the freedom to use any machine they like without constraining them to use particular machines with exception of marking attendance where the user has to login to the application using the organization's network only to prevent discrepancies*.

**2.4 Communications Interfaces**

Communication standards that are going to be used are FTP&HTTP. Nodata/application encryption mechanism is required.

**2.5 System Features**

USER LOGIN

|  |  |  |
| --- | --- | --- |
| REQUIREMENT  IDENTIFIER | NAME | DESCRIPTION |
| UL\_1 | USER LOGIN-1 | The user-id and password entered by the user will be authenticated by matching it with the database. |
| UL\_2 | USER LOGIN-2 | If the entered user-id or password do not match then user will be notified to re-enter the former. |
| UL\_3 | USER LOGIN-3 | If the user forgets his/her password, he/she will be required to reset it by entering his/her email-id after which he/she will receive a password reset notification on the registered email-id. |
| UL\_4 | USER LOGIN-4 | If the user-id and password is successfully authenticated, the user is directed to his/her dashboard. |

ATTENDANCE

|  |  |  |
| --- | --- | --- |
| REQUIREMENT  IDENTIFIER | NAME | DESCRIPTION |
| AD\_1 | ATTENDANCE-1 | On clicking the attendance button the user will be given an option to either check his attendance record or to mark his/her daily attendance. |
| AD\_2 | ATTENDANCE-2 | If the user selects check attendance option, he/she will be shown the attendance record. |
| AD\_3 | ATTENDANCE-3 | If the user wants to mark his/her attendance it is mandatory to login using the organization’s network. If this requirement is met the user will able to mark his/her attendance. |
| AD\_4 | ATTENDANCE-4 | If the user has not logged in using the organization’s network and tries to mark his/her attendance, he/she will be shown an error display message. |

LEAVE APPLICATION

|  |  |  |
| --- | --- | --- |
| REQUIREMENT IDENTIFIER | NAME | DESCRIPTION |
| LA1 | LEAVE APPLICATION-1 | Apply for leave. |
| LA2 | LEAVE APPLICATION-2 | Send notification that an employee has applied for leave to the concerned manager. |
| LA3 | LEAVE APPLICATION-3 | If leave is granted notification is sent to the concerned employee. |
| LA4 | LEAVE APPLICATION-4 | The manager may choose to reject the leave application with a valid reason and notification will be sent to the employee |

SALARY STATUS

|  |  |  |
| --- | --- | --- |
| REQUIREMENT  IDENTIFIER | NAME | DESCRIPTION |
| SS\_1 | SALARY STATUS-1 | If the user clicks on the salary status button, he/she will be shown his/her last months received salary. The user will also be able to see any tax/salary cuts as well as any bonuses received. User will also able to see previous salary records. |

NOTIFICATIONS

|  |  |  |
| --- | --- | --- |
| REQUIREMENT  IDENTIFIER | NAME | DESCRIPTION |
| N\_1 | NOTIFICATION-1 | The user will see a notification box in the dashboard in which he/she will be able to see notifications. On clicking any of the notifications the user will be directed to the notification page where he/she will be able to see the complete message. |
| N\_2 | NOTIFICATION-2 | The user will also be able to go to notifications page using a notification button. |

NEWS\_SURVEY

|  |  |  |
| --- | --- | --- |
| REQUIREMENT IDENTIFIER | NAME | DESCRIPTION |
| NS1 | NEWS\_SURVEY-1 | View updates, news and events like promotions, holidays, etc. |
| NS2 | NEWS\_SURVEY-2 | An user can view and may respond to the polls and survey. |
| NS3 | NEWS\_SURVEY-3 | Any user who is a manager can create updates and assign tasks |
| NS4 | NEWS\_SURVEY-4 | An user who is a manager can create polls and surveys. |

ASSIGNED TASKS

|  |  |  |
| --- | --- | --- |
| REQUIREMENT IDENTIFIER | NAME | DESCRIPTION |
| AT | ASSIGN\_TASK | An user who is a manager can assign tasks to certain employees upon which those employees will receive notifications. |

SETTINGS

|  |  |  |
| --- | --- | --- |
| REQUIREMENT IDENTIFIER | NAME | DESCRIPTION |
| S1 | SETTINGS-1 | An user can change his/her password or which the suitable notification will be sent |
| S2 | SETTINGS-2 | An user can update his/her profile for which the suitable notification will be sent |
| S3 | SETTINGS-3 | Make necessary changes in the corresponding database |

HELP

|  |  |  |
| --- | --- | --- |
| REQUIREMENT IDENTIFIER | NAME | DESCRIPTION |
| H | HELP | Contains an user guide |

LOGOUT

|  |  |  |
| --- | --- | --- |
| REQUIREMENT IDENTIFIER | NAME | DESCRIPTION |
| LO | LOGOUT | Lets the user logout of the application and displays a thank you message along with a link for the login page |

**3.0 Other Nonfunctional Requirements**

**3.1 Performance Requirements**

*There are no specific and high requirements as such, any browser, with a genuine operating system will be able to support this software.*

**3.2 Safety& Security Requirements**

*PopcornApps company safety and security policies are followed. No additional requirements.*

**3.3 Software Quality Attributes**

*The quality of software is high. It has been put through a rigorous and a large variety of tests. There are no doubts on its features such as: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. The user will not find any issues with the system.*

**3.4 Business Rules**

*This software is operated by the employees of the organization governed by the defined policies and security measures. Every individual who operates/uses this software must adhere to the company policies and security measures.*

**4.0 Other Requirements**

*None as such. However, it might be a good idea/ better practice to keep the browsers upgraded and updated, with use of genuine copy of the operating system and keeping a fast internet link.*

**Appendix A: Glossary**

***User*** *: An employee of the organization*

***Organisation*** *: PopcornApps*