

SOFTWARE DEVELOPMENT PROJECT PLAN

SRK KITCHEN FOOD DELIVERY SYSTEM

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1. INTRODUCTION

The project is a web application for a food delivery system. A user can register on the website, log in to the website and order food from SRK Kitchen. The Menu is divided in Appetizers, Main Course, Desserts and Beverages.

The website provides functionalities like browsing the menu, adding food items to cart, reviewing your order and payment.

The application has an admin which has a different control of the website application. The admin can view all customer details and orders.

1.1 PROJECT SUMMARY

This part of the document describes the functional requirements, design and use cases of the application.

1.1.1 PURPOSE, SCOPE AND OBJECTIVE

The purpose of this website application is to provide a way or medium to the customers to order food online instead of going to the restaurant or call the restaurant to place an order. The purpose of this document is to give an entire overview of the project and will help the team to make sure that all the requirements are met and deliverables are completed.

The objective of this project is to successfully develop the website application for SRK Kitchen Food Delivery System.

The scope of this project is restricted to one restaurant only that is SRK Kitchen, where the user will be able to browse the menu, place an order, checkout and make a payment and will be able to view the order summary.

1.1.2 ASSUMPTIONS AND CONSTRAINTS

1.1.2.1 ASSUMPTIONS

- Delivery: The project will be completed and demonstrated on the target date, there will be no delays. All functionalities will be delivered.
- Scope: the project scope will not change once narrowed down and finalized.
- Schedule: The entire project will be fully executed within the time frame given.
- Methodology: The project will follow agile methodology.
- Technology: The team will write a Java based solution.

- Design: The application will have user authentication and admin authorization.

1.1.2.2 CONSTRAINTS

- Human Resources: The team is limited to a group of three members.
- Infrastructure: The project is being developed on local machine of the developers and has no expensive infrastructure to support high load and sophisticated functionalities.
- Scope: The project is restricted to the minimum basic functionalities.
- Technical: The technology to be used was beyond the control of the developers. It is Java.
- Time: The project has time limit and needs to be finished within that time frame.

1.1.3 PROJECT DELIVERABLES

The project will have two deliverables: the source code and the documentation. It will be submitted via LMS.

1.1.3.1 SOFTWARE DELIVERABLES

A working source code of the website application will be submitted at the end of the project.

1.1.3.2 DOCUMENTATION DELIVERABLES

- Configuration Management Plan
- Design Document
- Function Specifications
- Project Management
- Project Plan
- Project Presentation
- Quality Assurance Plan

1.1.4 PROJECT SCHEDULE

Project Milestone	Start Date	Due Date
Project Start	10/30/2018	
Requirement Gathering and Analysis	11/04/2018	11/06/2018
Use Cases	11/07/2018	11/10/2018
Project Design	11/11/2018	11/12/2018
UML Design	11/12/2018	11/13/2018
Initial Prototype	11/13/2018	11/20/2018

Coding and Implementation	11/21/2018	11/30/2018
Testing	11/30/2018	12/05/2018
Documentation	11/25/2018	12/01/2018
Final Presentation	12/05/2018	12/06/2018

2. STAKEHOLDERS

The stakeholders in this project are the developers, RPI and ITWS department.

3. PROJECT ORGANIZATION

The project will be done by a group of three members. The work will be divided based on the skillset each member specializes in and the responsibilities will be shared among the group members.

3.1 ROLES AND RESPONSIBILITIES

The following roles and responsibilities were actively and responsibly carried out over the duration of the execution of the project:

- **Project Manager:** Kavya Jain
- **Software Developer:** Kavya Jain, Ritu Chandwani, Shweta Narkar
- **Tester:** Kavya Jain, Ritu Chandwani, Shweta Narkar
- **Quality Assurance:** Kavya Jain, Ritu Chandwani, Shweta Narkar

4. MANAGERIAL PROCESS PLAN

4.1 PROJECT START- UP PLAN

4.1.1 ESTIMATION PLAN

The team will discuss and finalize the functionalities, size and complexity of the project. The project will be broken down into pieces and developed for ease of implementation.

4.1.2 STAFFING PLAN

The team contains of three members and the three members play different roles over the duration of the implementation.

4.1.3 RESOURCE ACQUISITION PLAN

- **Hardware Resources:** Group members have their respective laptops on which the development will be carried out.

- **Software Resources:** All team members use Windows 10 operating system. For development, we are using Eclipse IDE and Tomcat.
- **Other Resources:** The team makes heavy use of online resources at different stages of the project for different problems faced over the duration of development.

4.2 WORK PLAN

The project plan has been divided into the following stages:

- Requirement Gathering and Analysis
- Project / Software Design
- Use Cases
- UML Diagrams
- Coding and Implementation
- Testing
- Quality Assurance

4.3 PROJECT CLOSEOUT PLAN

The project will be completed on the 6th of December 2018. The team will present the entire project on 7th of December 2018 and give a demonstration of the application. The documentation will be submitted on the 8th of December 2018.

5. RISK MANAGEMENT PLAN

There are certain risks associated with the project like:

- The Eclipse IDE and Tomcat can crash due to some unforeseen reasons.
- The laptop can crash leading to loss of documentation and/or code.
- The MySQL server can stop working, or there can be a connection issue.

Backups will be maintained to be on the safe side. A copy is also maintained on the Google Drive for ease of access as also for risk management.

6. TESTING PLAN

Each individual module will be tested separately to make sure that the project works. Unit testing will be done on the individual modules and then at the end, integration testing will be done to make sure the project works as a whole.

7. QUALITY ASSURANCE PLAN

To verify that all the requirements are met, project will be showed to the instructor beforehand. If any changes suggested, those changes will be made before the submission. Team will submit a proper working project, and will develop the software, considering the quality.

8. SOFTWARE CONFIGURATION MANAGEMENT

Tomcat Apache : 7.0.5

Eclipse IDE: 2018-09

JDK, JRE, JavaEE: 1.8

9. REFERENCES

- 1) Slides from the class and LMS
- 2) <http://tomcat.apache.org/>
- 3) <https://www.eclipse.org/>
- 4) <https://www.oracle.com/technetwork/java/javase/downloads/index.html>