SPMP Part 0: Front matter.

# 0.1 Title Page

Food API

A picture containing chart

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# 0.2 Revision Sheet

* + U1: Creation 6/20/21
  + U2: 6/23 post meeting updates

# 0.3 Preface: Scope and Purpose

* + This is a project to help introduce people to new foods and recipes and provide options to those unsure or uncertain about what to do with certain recipes. Weekly deliverables will be implemented into the project, in a time frame of 7 weeks, and we assume that a core knowledge of software development is in my foundation. This is essential due to an increase of home cooking and interest in recipes and homemade dishes. This is also used to expand boundaries of foods you may want at businesses.

# 0.4 Table of Contents

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Figures and Tables(Not Gantt/WBS) will go Below

SPMP Part 1: Introduction

# 1.1 Project overview

* + This is a web application that will utilize a RESTful API to deliver food recipes and options to users that visit my web page. They will have options of randomized recipes, search by keyword, or categories to click on, and ideas will be presented to them.

# 1.2 Project Deliverables

* + WIP
  + 6/30- Design Review/Tool Selection Review

# 1.3 Evolution of the SPMP

* + I plan on contacting the professor given a need for necessary changes or unexpected issues and referencing guides to the tools provided in the tool selection review.

# 1.4 Reference Materials

* + WIP

# 1.5 Definitions and Acronyms

* + WIP
  + Frontend-React/JS/Etc
  + Backend-Java/Spring Boot/Etc

SPMP Part 2: Project Organization

# 2.1 Process Model

* + The web page will send a request to the server, which will retrieve data and display it on the web page.
  + Utilize AGILE work experience, more focused on coding rather than collaborating.

# 2.2 Organizational Structure

Diagram

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## 2.3 Organizational Interfaces

* + Web app will interact with Food API.

## 2.4 Project Responsibilities

* + Frontend-Developer
  + Backend-Developer
  + Security-Developer

SPMP Part 3: Managerial Process

# 3.1 Management Objectives and Priorities

* + Main priority is functionality, then appearance, then security. We need to first have the functionality to return a hello world app, then implement a REST API. We will then make the website look good through html/CSS/js. Given the 7-week timeframe, it is expected that the first two will be mostly complete, with security taking a backseat to the project.
  + Search functionalities add more here.

# 3.2 Assumptions, Dependencies, and Constraints

* + We assume the Food API will maintain live, and that we can receive responses from it. We depend on this, if not the project will change drastically.

# 3.3 Risk Management

* + Risk factors could include the API going down, a server being overloaded by client requests, or general issues developing along the way. The project may be too large to complete. The project does not require funding, so that is a non-risk.

# 3.4 Staffing plan

* + There will be 1 developer to handle it all, who is also the owner of the app.

# 3.5 Monitoring and Controlling Mechanisms

* + Weekly status update with project advisor on a need-to basis and messaging them based on concerns for the project. Demos at end of deadline

SPMP Part 4: Technical Process

# 4.1 Methods, Tools and Techniques

* + Spring Boot App RESTful API will be utilized with either basic html/cs/js or React as a frontend to display fetched json results.
  + Methodology

# 4.2 Software Documentation

* + README’s will be included in core file repositories, along with thorough documentation of the software development process.

# 4.3 Project Support Functions

* + Plans (at least) the following project support functions.
    - Plan to ensure quality assurance.
      * Tests to make sure edge cases are fulfilled.
    - HTTPS
      * Secure site through certification

# SPMP Part 5

Diagram

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* Project Management and Requirements gathering is a prerequisite to all of these, and testing/production is dependent on the site software development. React/JS/HTML/CSS or general Design task and the Backend will hinder progress on new functionality/optional tasks.

Chart

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