

## 1: Introduction

- 1.1 - Purpose
  - The purpose of this vision document is to outline the details about the Planner Software. This document will cover the
    - business opportunities
    - problems and constraints
    - stakeholder and user descriptions
    - product overview and product features
- 1.2 - Scope
  - This vision document pertains to the Planner Software which will be developed by Mason Luna, Samantha Cook, and April Romeo. We will develop this software to be used by macOS or Windows on a desktop basis. This software will help aid in a seamless week for busy working college students.

## 2: Positioning

- 2.1 - Business opportunity
  - This software will be very marketable for full-time college students which also work part-time. This specific demographic of people are extremely busy with changing schedules on a given week or semester. The changing of schedules makes it very easy for tasks, events, or even bills to get forgotten about. This software will offer some clarity in a life of whirlwind for students. The planner will be easily made, and easy to print as a pdf document. Planner Software will be the best in the business being that it is flexible to cater to each student's needs on a calendar.
- 2.2 - Problem statement
  - The problem full-time college students face while working part or full-time simultaneously is keeping track of each week and/or months "to do list." This leads to stress, missed due dates on assignments, forgetting about work or class, and missing payments on bills. Planner software will serve as a software where everything that needs to be taken care of will be listed in one place. This will help students with busy schedules keep track of exactly what every week or month will look like from one place.

## 3: Stakeholder and user descriptions

- 3.2 - Stakeholder Summary
  - Mason Luna
    - Project Manager
      - Works to manage all aspects of software development and any details of the project.
      - Will serve as lead software engineer.
    - Software Engineer Team Lead
      - Work closely with other software engineers to develop software.
      - Oversees all software development.
  - Samantha Cook
    - Project Planner

- Overseeing all planning and requirements.
- Software Engineer Team Member
  - Work closely with other software engineers to develop software.
- April Romeo
  - Software Engineer Team Member
    - Work closely with other software engineers to develop software.
  - Quality Assurance Testing Lead
    - Will work to oversee all the testing of this software.
- 3.3 - User Summary
  - An overview of our users would include any person who has a busy schedule. The majority of our users will be college-students who also have jobs. The users will access software to create weekly or monthly planners which will include all of their personalized information.

#### 4: Product overview

- 4.1 - Product perspective
  - The system will function like the analog planners and notebooks that are widely used by students, but the system will exist digitally on a user's desktop.
- 4.2 - Summary of capabilities
  - The user will be able to create, edit, save and load calendars that can be viewed in either week-long or month-long chunks. The user will be able to add and organize different events based on both commonly used categories (class, work, assignments/tests, church) as well as add custom categories to organize events by.
  - The user will also be able to export the calendar to a .pdf file for future viewing and/or printing.
- 4.3 - Assumptions and dependencies

#### 5: Product features

- 5.1 - Class Schedule
  - The class schedule feature will allow users to input their specific classes with times and days of each week. This will be added to the planner for each entry of data.
- 5.2 - Work Schedule
  - The work schedule feature will serve similarly to the class schedule. This feature will ask for daily input which will be when the user has to work. The work schedule feature will allow for weekend entry of work schedule.
- 5.3 - Custom Schedule for personal activities
  - The custom schedule feature will allow for setup of custom attributes to schedule. This feature will be used for a personal custom input which happens one or more times a week. An example of this would be a custom input for church, church would be added to Sunday morning and evenings as well as Wednesday evenings. This is a recurring schedule that can be customized to whatever activity the user has that is different from work or school.
- 5.4 - Assignment Due Dates

- Assignment due date feature is designed to allow users to input their assignment description, course name, and the due date. The system will then make that information and place it on the corresponding day with brief information about the assignment.
- 5.5 - Weekly Planner
  - The software will be designed to support planning a weekly-basis. This means the software will take input for a week then format the data received onto a planner. This feature is to support users whose schedule changes on a weekly basis.
- 5.6 - Monthly Planner
  - The monthly planner feature will be formatted to take the inputs of data for an entire month. This will be exactly like the weekly planner, just a month with each week planned out. This feature allows for users that know their schedule a month in advance.
- 5.7 - Save and Convert planner to PDF File
  - The saving and converting feature of the planner software is how the users will export their planner.
  - The PDF will allow the users to save the planner as a PDF so they can easily print the file. This allows for a streamline printing process to give users a hard copy of planner. The PDF file is also great for exporting to different devices or sharing with friends.
- 5.8 - Personal Miscellaneous Events
  - This component of the software is designed for events that are not recurring on the calendar. This is how users will input important meetings, dates, or events on their planner.
- 5.9 - Graphic images as activities on planner
  - Graphic image features will be how events, schedules, and dates are represented on the calendar.
- 5.10 - Tracking bills
  - The tracking bills feature will be a section of the software which allows the user to input bills that are due in that week or month. The software will classify the type of bill, amount due, and the due date.
- 5.11 - Display filter based on event category
  - The user will be able to filter the tasks that display on the calendar based on the task categories that are selected. For example, if the user wished to only display assignment due dates, the user will be able to deselect all other categories, and only assignment due dates will be displayed.

## 6: Constraints

- 6.1 - The following tools and frameworks will be used
  - Java
  - JavaFX
  - IntelliJ IDEA CE

## 7: Other product requirements

- 7.1 - Desktop Based Software

- A constraint our software has is that it will be run on the user's desktop opposite to a web-based application.
- 7.2 - macOS and Window users
  - This software will be made available for macOS users or Window users.
  - This software may or may not be functional on a Linux device.