Full Stasis

Vincent G. Sanchez

CST-451 Capstone Project Proposal

Grand Canyon University

Instructor: Professor Mark Reha

Revision:2.0

Date: 4/19/23

**ABSTRACT**

This project is used is going to be used to color coordinated a person daily schedule with certain requirement in mind. These colors will be used to help people that have many different tasks in front of them get organized without letting their mental health plummet in response. This will include having specific color events that are not supposed to be moved or items that you do not have control over. For example, an external event or responsibility that was planned by someone else or has an expected attendance. This can be school, work, church, Jury duty, Items that are not able to be moved and if missed with have a negative effect. There will also be a section for items that should happen within a day this will be its own color and when your plan for the day is under the minimum you will be reminded your mental health can suffer in response. Using this part in combination should help those with busy schedules from getting burned out or overwhelmed by all the tasks in front of them. All it takes is some planning and determination and with this app it will be more assessable.

Summarize the entire project in 2-3 paragraphs, about 15-20 lines. The abstract should be enough for one to get an idea of what this project is about, what the task was, and what you accomplished. Briefly provide a broader context. Write this section only after the entire project is complete. (Do this)

|  |
| --- |
| History and Signoff Sheet |

**Change Record**

|  |  |  |
| --- | --- | --- |
| **Date** | **Author** | **Revision Notes** |
| 9/23/22 | Vincent Sanchez | Initial draft for review/discussion |
| 4/19/23 | Vincent Sanchez | Updated Changes |
|  |  |  |

|  |
| --- |
| **Overall Instructor Feedback/Comments** |

|  |
| --- |
| **Overall Instructor Feedback/Comments** |

**Integrated Instructor Feedback into Project Documentation**

Yes  No

**Project Approval**

Professor Mark Reha

**TABLE OF CONTENTS**

Project Overview and Project Objectives 4

Project Scope 5

Project Success Measures 6

Project High-Level Solution 7

Project Controls 8

Project Cost and Schedule 10

Appendix A – References 11

Appendix B – Copyright Compliance 12

Project Overview and Project Objectives

**State the Problem and Background**

Explain why the project is being undertaken.   
This project is being undertaken for the purpose of creating a tool that will allow those with many tasks or those that want to balance their work life and social life evenly so that they can live a happy and prosperous life. This application aims to reduce stress and improve productivity by making planning in a person life easier to do with categories on importance and condition of whether they will affect a person’s productivity or mental health.

Include pertinent background information for the project.

When talking to college student or people in the working class one thing is common between both. The life that lives is a constant battle of what they are doing in their social life and what they are doing for the work life. How many hours are they putting into their shift and how are they able to maintain their personal time and hobbies without reducing their productivity. Too many hours working leads to too little personal and social time affecting the person mental health and productive ability as they may not be able to keep focus to complete task assigned. Too much social activity and they begin to start falling behind on their work or task cause those situations to be more stressful also result in an effect on a person mental health.

**Project Objectives**

* List objectives that will be used to measure project success.
* Begin a course to learn about React Native
* Progress more than 50% through the course
* Create a Concept project and see if the features are possible to create
* Take the Concept and have it run on an Android Device
* Begin working on a revision with the feature expected for mobile
* Use Google Services to allow a person create user and login
* Get the Event List working as expected
* Get the user data to be stored in non-relational database
* Get the Event List linked to a specific user so they can login and see their event task list even from a different device

**Challenges**

* List the known challenges that will be used to measure project success.
* Learn new language React native
* Implement React Native in a way that enables support Android
* Allowing a user login on Mobile devices
* Get the code to work as expected by the deadline that are established
* Make the application stable

**Benefits and Opportunities**

Describe the benefits or opportunities resulting from project implementation.  
  
The benefit of this application is that it will be able to help those with many tasks that are struggling to maintain a healthy Work/Life balance to avoid affecting their mental health. The people that this can help are varying and wide including teachers, students, parents, anyone that has a Job or event that they are expected to be at while going to school or completing a task within specific deadlines. This should allow those that use the application to feel more confident and relaxed when taking on more items or having increasing life events as they progress through life.

Project Scope

1. Give a clear, concise statement that states the scope of the project. This should also include items that are to be out of scope.

|  |  |
| --- | --- |
| In Scope | Out of Scope |
| User creation and login | Ability to export the Calendar to another like Google or Outlook |
| Landing page for Users that are not signed in | Section where the mental health studies are posted |
| Event that are given a color | Create your own color or categories |
| Save all event to cloud or equivalent | Send a reminder to go outside and get vitamins D |

1. Use the template to list all known stakeholders and contacts, if applicable, including self (for some projects self may be the only name listed)

|  |  |  |
| --- | --- | --- |
| Stakeholder Name | Role(s) | Responsibilities |
| Vincent Sanchez | Creator | Creation and Design of application |
|  |  |  |

1. List the work breakdown required to satisfy the project objectives. Identify teams and other resources that may be required to successfully complete the project.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Work Breakdown Structure | | | | | | | | | | |
| ID | Task | Dependencies | Status | Effort Hours | Cost | Start Date | Planned Completion | Estimate to Completion | Actual Completion | Resource |
| 1 | Initial Planning | Describe the use of the application | Complete | 4.0 | 0 | 9/19 | 9/25 | 1 Week | 9/25 |  |
| 2 | Finding React Native Course | Finding time in the schedule of a college student | finished | 1.0 | 129.00 | 9/19 | 9/25 | 1 Week | 9/25 | Udemy |
| 3 | Working on course | Need to Purchase course first | Not Started | 30 | 0 | 10/3/22 | 10/21 | 2 Weeks |  | Udemy |
| 4 | Begin Concept | Complete the react course | Not Started | 35 | 0 | 10/24 | 11/7/22 | 2 Weeks |  |  |
| 5 | Learn to use Firebase for the backend | Complete needed functionality in concept | Not Started | 5 | 0 | 11/9/22 | 11/11/22 | 3 days |  |  |
| 6 | Start the first version of the project | Complete the fire base knowledge and React native learning | Not Started | 1 | 0 | 11/14 |  |  |  |  |
| 7 | Code Drop One | Write the 1/3 of the features of the application with the period provided | Not Started | 30 | 0 | When Previous step is completed | CST-452 Week 5 | Five weeks |  |  |
| 8 | Code Drop two | Write the 2/3 of the features of the application with the period provided | Not Started | 30 | 0 | When Previous step is completed | CST-452 Week 10 | Five weeks |  |  |
| 9 | Code Drop three | Write the 3/3 of the features of the application with the period provided | Not Started | 30 | 0 | When Previous step is completed | CST-452 Week 15 | Five weeks |  |  |
| 10 | Final QA Testing | Completely test all features of the application and make sure that they work | Not Started | 2 | 0 | Preform Deadline for Presentation | Week 15 | 3 Days |  |  |

Project Success Measures

1. Describe what measures will be used to calculate project success.   
     
   The way that this team will measure success is by how many different Project objectives are met.   
   Along with completing the item and feature that are within our scope written in the documentation above. That is what our project completion criteria is going to be based on
2. Use the template to list the project completion criteria.

|  |
| --- |
| Project Completion Criteria |
| 1 – Does the App open on Android? |
| 2- Can you login? |
| 3 – Can you see a calendar? |
| 4 – Can you create an event and set a color or category? |
| 5 – When you logout and log back in are your events still there? |

1. Use the template to list the project assumptions and constraints, if applicable. An assumption is an educated guess that a likely condition or circumstance is presumed to be true. A constraint is a limiting condition or circumstance that defines the project boundaries. Assumptions allow the project to succeed. Constraints restrict or limit the project execution.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Assumptions and Constraints | | | | | |
| ID | Description | Comments | Type | Status | Date Entered |
| 1 | Learn enough about React Native to create an app | Our team will study this framework to be able to have the completion of the application | Assumption | Not Started | 9/25/22 |
| 2 | Learning the language may take longer than expected |  | Constraint | No Effect | 9/25/22 |

Project High-Level Solution

**Introduction**

The challenge that is going to be address is balancing people work and social lives. This is going to be done by creating a calendar application that uses color like red, green, and yellow, to categorize types of events that are placed on a person’s calendar when planning their day. These colors mean various things like for red this will represent event the are out of the person control or an event that can’t be moved such as work, school, Meeting with your boss and alike. Yellow will represent event that can be moved but are part of that day like studying, eating, homework, and alike, Lastly, green represents personal time that a person take such as watching a Tv series or playing a game, watching a movie, or doing a hobby. The green category will have a minimum requirement that the application will remind the user about because without a certain amount of personal time your mental health can suffer.  
A picture containing chart

Description automatically generated  
This application is going to be a Mobile Application that will be available on both Android and IOS to this application the most user friendly and convenient to carry. The user will be able to create an account, login to it and see all their events that they have planned for the day and as they continue to add new items to their calendar it will provide some suggestions based on if they need more green label ones and alike.

Project Controls

1. Use the template to define the risk and list the steps to prevent the risk from occurring or the steps to minimize the chances of it happening. The contingency plan describes alternative solutions to reduce the impact of the risk. An example of a contingency plan is to provide the customer a temporary web server if there are delays in delivery/completion. If the risk has already happened then provide an entry in the issue log.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk Management | | | | |
|  | **Risk Probability** | **Risk Impact** |  |  |
| **Event Risk** | **(high, medium, low)** | **Risk Mitigation** | **Contingency Plan** |
| What is the risk? | What is the probability? | What is the impact if the risk occurs? | What can be done to minimize the risk? | What can be done to minimize the impact of the risk? |
| Unable to understand the React Native framework | High | If this happen the technology learning will have to start over and a new framework will need to be picked | Follow the course to the most detail to see how each version of an application is made with React native | Use flutter and learn how to use that as it is like React native |
| Firebase does not work | High | The backend for the application will have to be stored locally which means the application has to ask for storage permission | Follow guides online on how to use firebase for the backend | If firebase does not work storage the events using json files |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Issues Log | | | | | | | | |
| **ID** | **Description** | **Project Impact** | **Action Plan/Resolution** | **Owner** | **Importance** | **Date Entered** | **Date to Review** | **Date Resolved** |
| 1 | What is the issue? | How will this impact scope, schedule & cost? | How do you intend to deal with this issue? | Who manages this issue? |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |

1. All projects have either anticipated and planned or unexpected changes. Describe any issues in management or change management due to the anticipated and planned or unexpected changes. Use the template to list anticipated and planned or unexpected changes.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Change Control Log | | | | | | | | | |
| **ID** | **Change Description** | **Priority** | **Originator** | **Date Entered** | **Date Assigned** | **Evaluator** | **Status** | **Date of Decision** | **Included in Rev. #** |
| 1 | Authentication Style |  | Vincent Sanchez |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |

1. Use the template to describe how the end user is involved in the software development, if applicable. Include relevant information about meetings, reviews, presentations, etc.

|  |  |  |  |
| --- | --- | --- | --- |
| Roles and Responsibilities | | | |
| Name | Team | Project Role | Responsibility |
| Scott Simon | N/A | Beta Tester | The First person outside of the design team that will use the first version of the application after the Users account are able to be created |
| Michael Alu | N/A | Beta Tester | A College student that will test the features and provide feedback |

Project Cost and Schedule

1. Create a spreadsheet of costs related to the scope of the project, with all necessary material and elements required to accomplish it effectively, and the allocated resources. Note: If the project being designed will not require any cost calculations, please state that here.  
     
   
2. Create a project schedule after all project tasks have been defined and prioritized.  
     
   
3. Set a programming schedule by implementing work breakdown and task time estimates. Create a timeline with dates for completion of key components of the project.

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Description | Estimated Completion | Actual Completion |
| Create Project | Create the project in React | Week 1 |  |
| Create the User page | This is the page that will allow a user to create an account | Week 2-3 |  |
| Create the Login page | This is the page that will allow a user to logon | Week 4-5 |  |
| Create the Calendar Page | This is the page that will have most of the features and will be the main part of the app | Week 5-7 |  |
| Create connections to Firebase | This is the step that will allow the app to store data connected to a user | Week 7 |  |
|  |  |  |  |
|  |  |  |  |

Appendix A – References

*List all references using APA style*

Google. (n.d.). Google. Retrieved September 25, 2022, from https://firebase.google.com/?gclsrc=ds&gclid=CJbw587rsfoCFUsQrQYdxUYEHA

*React native · learn once, write anywhere*. React Native RSS. (n.d.). Retrieved September 25, 2022, from https://reactnative.dev/

Appendix B – Copyright Compliance

In this project my team will be using React Native which is an open-source framework. My team will also be using the spark tier of Firebase for the cloud backend of my application to store the user’s events. This is within their free tier use as they are a pay as you go service. As for the name of the application after check for trademark for those that own various name and looking online through a search engine my team has concluded that the application will be called “Full Stasis”