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| Project Design |
| CSCI 4805-10 Spring 2024 |

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| 2-22-2024 |

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# Project Name

Hobby Pro.

# Team Member Names

Candelario Aguilar Torres

Yazmin Alvarado

Dustin Bailey

Samuel Fletcher

# Abstract

Hobby Pro is a web-based project management application created for individual hobbyists. Projects can be created and broken up into stages. Users can dedicate tasks to be completed for each stage as well as add any associated notes and images. Hobby Pro aims to streamline tracking and project organization by providing a centralized space for users to efficiently manage all aspects of their hobbies.

# Tools & Technologies

HTML

CSS

JavaScript

Vue.JS

Firebase

# Requirements List

## Onboarding

### Sign-in Form

* 1. The user will be given a screen that welcomes the user and present the following:
     1. A username input textbox
     2. A password input textbox
        1. The username must match any current usernames within the system.
           1. If the username input does not match any current username’s registered in the system, it will be notified that the username is not valid.
           2. Else the username will be accepted.
        2. The password must match with the password under the specified username in the system. If the password does not match what is registered in the system, an invalid credentials notification will be shown to the user.
  2. The user will see under the textboxes two buttons:
     1. Submit button
     2. Forgot password button
        1. Pressing the submit button will check if the inputted info matches any system user info
           1. If the user's info is valid, it will take the user to the home page signed in under that user
           2. Else it will remain on the page and ask the user for valid info.
        2. Pressing the Forgot Password button will take the user to the Forgot Password Form

### Forgot Password Form

* 1. The user will be prompted to input an email address
     1. The user is then given the option to hit two buttons:
        1. Confirm
        2. Cancel
     2. Pressing Confirm sends an email with a link to enter a new password.
     3. Pressing Cancel end the process which takes the user back to the “sign-in form”

### Registration Form

* 1. The user Will be given a screen that welcomes the user and asks for the following:
     1. First Name input textbox
     2. Last Name input textbox
     3. Email input textbox
     4. Username input textbox
     5. Password input textbox
     6. Retype Password input textbox
  2. The first and last name Text boxes must contain alphabetic letters only
  3. Username must be a valid unique name not matching one already in the system.
     1. If the username matches one in the system, the system will ask the user to change it.
     2. Else it will verify that the username is not taken
  4. Password must be unique containing:
     1. Uppercase letter: “A,” “B” “C,” etc...
     2. Lowercase letter: “a,” “b,” “c,” etc...
     3. A Number: “1”, “2”, “3”, etc...
     4. Be 8 to 12 characters long.
        1. If the password does not follow any of the restrictions above, it is considered invalid.
        2. Else it is valid.

## Dashboard

### Dashboard Page

* 1. When a user logs in they will be taken to the Dashboard Page where they will see
     1. Basic Layout
        1. A side bar that will be at the left side of all pages and contain links to the following pages.
           1. Dashboard
           2. Projects
           3. Library
           4. Completed Projects
        2. A navbar at the top of all pages and containing:
           1. User Profile
           2. Search Bar
           3. Hobby Pro Logo
        3. Add New Project Button
           1. A floating action button that will redirect the user to create a new project on the New Project Page
     2. List of Starred Projects with Progress Bar
        1. Users will see a list of current projects with the following information.
           1. Name
           2. Date Started
           3. Last Accessed On
           4. Deadline with Days left
           5. Tage Names
        2. Progress Bar Visualization attached to each individual project.
        3. Area will be empty if no projects are created or starred.
     3. Filter Option
        1. A Sort and Filter option with general sort/filtering options. See General section.

### Create a New Project Page

* 1. A form will prompt users to enter information for the project that include the following
     1. Project Name
     2. Date
        1. Current Date is set as default in the form
        2. User can change the date
           1. Date cannot be set further ahead than the current date
     3. Tags
        1. A search bar that populates similar tag names as the user is typing
           1. User can select at least one or more tag
     4. Deadline
        1. If user selects deadline check box, user can select a date to set
           1. Deadline is added to Main Dashboard Page and Project Page
        2. If not selected, no changes occur
     5. Text Area
        1. A text area where user can add Notes or a Description for the Project
     6. Attachment box
        1. Users can add attachments to their Projects.
        2. Added attachments will appear in the under the Overview in the Project Name’s Page
  2. Bottom of the form will have a Continue and Cancel Button
     1. If the user clicks Continue the project is added to the Project Page and the Main Dashboard Page
        1. The user is then redirected to Project Page of the newly created project
     2. If the user clicks Cancel the user is redirected to the Main Dashboard Page

### Project’s Name Dashboard Page

* 1. Basic Layout users will see for every Project created
     1. Project’s Name Dashboard that consists of “sections” that the user can select that include
        1. Overview section which will have the following
           1. Project Name
           2. Progress
           3. Total Time
           4. Start Date
           5. Last Updated
           6. Notes from Create New Project Page
        2. Stage(s)
           1. The project dashboard will list the current stages of the selected project.

Three empty stages are automatically created

* + - * 1. A drop-down menu available next to stage name that includes

Add new stage

A new stage will appear Project’s Name Dashboard

Add images section

Rename stage

Duplicate stage

A duplicated stage will appear on the Project’s Name Dashboard

Delete stage

Selected stage will be deleted form the Project’s Name Dashboard

* + - * 1. Users can add Kanban tasks, Notes, and Images within this section

Kanban board with To Do, Doing and Done titles

If there are no tasks, nothing will be displayed

User can add tasks to the kanban board

Pop up block will appear asking user to enter title and description of task

User can move task between To Do, Doing and Done area

A textbox form where user can add notes

Images can be uploaded when user selects to add a new image section

See general for upload formats

A drop-down menu to give the user the option rename, view or delete the image

* + - * 1. Completed Check Box in next to each stage name

If checked, progress is updated in the Overview tab and the Main Page

If all stages check boxes are selected

Message Alert appears and prompts the user to add optional items:

Final notes to a textbox

If notes are added, then it will be displayed in the Overview Layout of the Completed Project Page

Nothing will be displayed if left blank

Images of the completed project

See general for upload formats

Nothing will be displayed if left blank

Project removed from the active project list and moved to the Completed Project Page

* + - * 1. Time

Users can add time spent on a project in minutes or hours by selecting a button

Time entered is updated on the Project Dashboard

### Project Page

1. Active Project Page will have the same basic layout as the Dashboard Page
   * 1. Basic Layout
        1. A side bar that will be at the left side of all pages and contain links to the following pages.
           1. Dashboard
           2. Projects
           3. Library
           4. Completed Projects
        2. A navbar at the top of all pages and containing:
           1. User Profile
           2. Search Bar
           3. Hobby Pro Logo
        3. Add New Project Button
           1. A floating action button that will redirect the user to create a new project on the New Project Page
     2. List of Projects with Progress Bar
        1. Users will see a list of current projects with the following information
           1. Name
           2. Date Started
           3. Last Accessed On
           4. Deadline with Days left
           5. Tage Names
           6. Star button

If selected project will appear in the Dashboard Page

* + - 1. Progress Bar Visualization attached to each individual project.
      2. Area will be empty if no projects are created
    1. Filter Option
       1. A Sort and Filter option with general sort/filtering options. See General section.

### Library

* 1. The library is the user's personal library on Hobby Pro.
     1. The library will have an upload button that will open the computer's file system to allow the following files.
        1. PDF
        2. JPEG
        3. PNG
        4. SVG
     2. After the user selects the file under the correct format options, the user’s file will be uploaded.
     3. Once the file is added to the library page the user can view the file by clicking it which then will open the file in another browser tab
  2. The library will have filtering options that allows file to be sorted by the general filtering options
  3. The library will have buttons beside each file that will give the options:
     1. Delete
        1. A general dialog box will be presented if the user selects Delete
     2. Rename
        1. A textbox dialogue box opens for the user to rename the given file
           1. The user can enter a new name and then have the option of hitting the confirm or cancel button.
           2. If confirm is hit will close the dialogue box and change the name of the project
           3. If cancel is hit it will close the dialogue box and nothing is changed.
     3. Copy
     4. Paste

### Completed Projects

* 1. The user has access to all their completed projects, if they have not completed a project then nothing will be displayed.
     1. Completed projects will be sorted by the general filtering options:
  2. Users can view completed projects. An icon layout where users can select will include:
     1. Photo of Completed Project
     2. Project Name
     3. Date Range
        1. Start Date to End Date
     4. “Lesson Learned” Notes
  3. When the icon is selected, the project dashboard appears for the user to browse through but not edit.

### User Profile

* 1. There will be a section that displays information about metrics from the user.
     1. The total number of projects
     2. The number of completed projects
     3. The number of projects started but not finished
  2. Users will have the ability to edit their profile
     1. Change password
     2. Change email

## General

### Dialog Box

* 1. Will prompt user-associated message and present two options:
     1. OK
     2. Cancel
  2. If OK is clicked, then it will complete the associated process
  3. If Cancel is clicked, then it will cancel the associated process

### Filter Options

* 1. Available filtering options include but are not limited to:
     1. Recent
     2. Date Range
     3. Alphabetical ascending
     4. Alphabetical descending
     5. Numerical ascending
     6. Numerical descending

### Image Upload Options

* 1. A dialog opens and will display the following format options to upload:
     1. PDF
     2. JPEG
     3. PNG

### Mobile Support

* 1. The web application will be able to be resizable to fit on screens for mobile use.

# TimeLine

|  |  |  |
| --- | --- | --- |
| Week | Date | Deadlines |
| 1 | Jan. 22 | Project Ideas. Start on Project Proposal |
| 2 | Jan. 29 | Completed Project Proposal; finishing project requirements |
| 3 | Feb. 5 | All team members- refining project requirements |
| 4 | Feb. 12 | Technology Familiarization and UI Design  Yazmin – UI design  Sam – Vue.js/Firebase datastore familiarization  Dustin – Vue.js/Firebase datastore familiarization  Candelario – Vue.js/Firebase datastore familiarization |
| 5 | Feb.19 | Build Project Skeleton and Technology Familiarization  Yazmin – UI/ Design and Vues.js/Firebase datastore familiarization  Sam – Build project skeleton with routing to appropriate pages  Dustin – database design and implementation  Candelario – skeleton for auth onboarding |
| 6 | Feb.26 | Implement UI  Yazmin –New Project Page  Sam – Project Dashboard Page  Dustin – Main Dashboard Page  Candelario – Onboarding Pages |
| 7 | Mar. 4 | Implement UI  Yazmin –New Project Page  Sam – Project Dashboard Page  Dustin – Main Dashboard Page  Candelario – Onboarding Pages |
| 8 | Mar. 11 | Implement CRUD Functionality  Yazmin –New Project Page  Sam – Project Dashboard Page  Dustin – Main Dashboard Page  Candelario – Onboarding Pages |
| 9 | Mar. 18 | Implement CRUD Functionality  Yazmin –New Project Page  Sam – Project Dashboard Page  Dustin – Main Dashboard Page  Candelario – Onboarding Pages |
| 10 | Mar. 25 | Implement UI  Yazmin – Library  Sam – User Profile  Dustin – Completed Projects Pages  Candelario – User and General Settings Pages |
| 11 | Apr. 1 | Implement UI  Yazmin – Library  Sam – User Profile  Dustin – Completed Projects Pages  Candelario – User and General Settings Pages |
| 12 | Apr. 8 | Implement CRUD Functionality  Yazmin –Library  Sam –User Profile  Dustin – Completed Projects Pages  Candelario – User and General Settings Pages |
| 13 | Apr. 15 | Implement CRUD Functionality  Yazmin –Library  Sam –User Profile  Dustin – Completed Projects Pages  Candelario – User and General Settings Pages |
| 14 | Apr. 22 | All – Final Testing |
| 15 | Apr. 29 | All – Celebrating Success!!! |

# Design Description

Provide a 5- to 6-page description of the system’s architecture. You should refer to the images and diagrams in the appendices as needed

# Appendix

## Block Diagram

## Component Diagram

## User Interface Storyboard

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

## Message Documentation

## Storage Documentation