

# ChatGPTatHome

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<https://github.com/ChatGPTatHome/Project>

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# Introduction

This is the last deliverable for our group ChatGPTatHome. It represents a base version of our app “Project Hub”, and was designed for easy scalability if further updates were to be provided. It has all the basic functionality required for all groups, as well as further functionality for the sake of keeping track of whatever projects a user might indulge in. It also has a built-in file and directory management system that allows our users to organize their projects however they like. The UI was designed to be simple and intuitive for the sake of utilization by users with the minimum amount of computer literacy. Our app “Project Hub” allows for simple planning and grouping of projects for users of all backgrounds. This deliverable strives to show off our app's functionality, and anything else previously stated.

# Requirements Addressed

Key:

Greens means implemented.

Red means unimplemented.

Blue means maybe or technically implemented or unimplemented.

## User Stories:

US01: As an organized user, I want to be able to easily create folders.

US02: As a DIY enthusiast, I want to keep track of tools and materials used for a project.

US03: As a DIY enthusiast, I need a way to keep track of project costs.

US04: As a DIY enthusiast, I need a way to estimate project costs.

- You can use our app to estimate costs, but it's not an explicit feature.

US05: As a DIY enthusiast, I want to be able to keep track of tasks needed for my projects.

US06: As a DIY enthusiast, I want to have a way to download information from the app for storage or sharing.

US07: As a DIY enthusiast, I want to compare budgets and estimates with actual costs.

US08: As a DIY enthusiast, I want to be able to set and track my budget for each project.

US09: As a DIY enthusiast, I want to be notified when a project exceeds budget or estimates.

US10: As a DIY enthusiast, I want to manage multiple projects simultaneously, with the ability to easily switch between them, so I can efficiently handle various tasks without losing track.

US11: As a DIY enthusiast, I want to set reminders for project deadlines, so I can manage my time effectively.

US12: As an organized user, I want to be able to easily delete folders.

US13: As a Chrome user, I want tabs because it is a familiar concept and it would make things easier to navigate.

US14: As a DIY enthusiast, and a parent, I want to be able to have multiple users, such that I or my child are able to log into their own accounts.

US15: As an organized person, I want to be able to organize my tabs to whatever fulfills my needs at the time.

US16: As a DIY enthusiast, and a parent, I want to be able to have admin privileges for my projects, so that I can prevent drastic changes to them from other users.

US17: As a DIY enthusiast, I want to access information on past projects, so I can reuse successful ideas and learn from past mistakes.

- Not an explicit feature of our app, but persistent data makes sure that any projects created (Be it active or inactive) will stick around until deleted by the user.

US18: As a DIY enthusiast, I want to be able to set reminders for purchasing needs.

\*US19: As a DIY enthusiast, I want to view summaries and progress reports for each project, so I can easily assess what has been done and what still needs attention.

US20: As a DIY enthusiast, I want to have information on tools and appliances even if the links or websites about them are dead.

US21: As a DIY enthusiast, I want to document my projects and share them easily with others, so I can showcase my work and inspire others.

US22: As an organizer, I want to close/minimize my windows through conventions.

- Instead of having multiple windows/frames, we went with a more panel-type design, where we have a single window that changes its contents. Interactions with this single window and its contents are done through conventions.

USX01: As a user, I want to enter settings such as my first name and email address

USX02: As a user, I want to see the version of the software and other information such as the names of the developers.

USX03: As a user, I want to export settings (name and email) for synchronization to other devices

USX04: As a user, I want to import settings to synchronize with other devices.

## Business Rules:

BR01: The program should be able to clear all your data to comply with General Data Protection Regulation (GDPR) rules

- Not an explicit feature where the user can wipe all data from the app with the push of a button, but, all data is stored locally on the user's device, and is able to be deleted or overwritten by the user manually using either our app or by accessing the files on their computer directly.

BR02: The personal information of customers should be encrypted.

BR03: All users must be authenticated through secure login procedures before accessing the application to ensure that access is restricted to authorized users only.

BR04: The responsibility of data storage and management should not be on the company's shoulders. The app should function without servers or other external devices or systems provided by our company.

BR05: The distribution of our app should be done through an online free third party service. Our company should not have the responsibility of storing and distributing the software using its own servers.

BR06: Only third-party software or libraries that are free of cost and licensed under permissive licenses (e.g., MIT, Apache 2.0, BSD) should be utilized. The chosen software must not impose any restrictions that would impede our ability to sell the app.

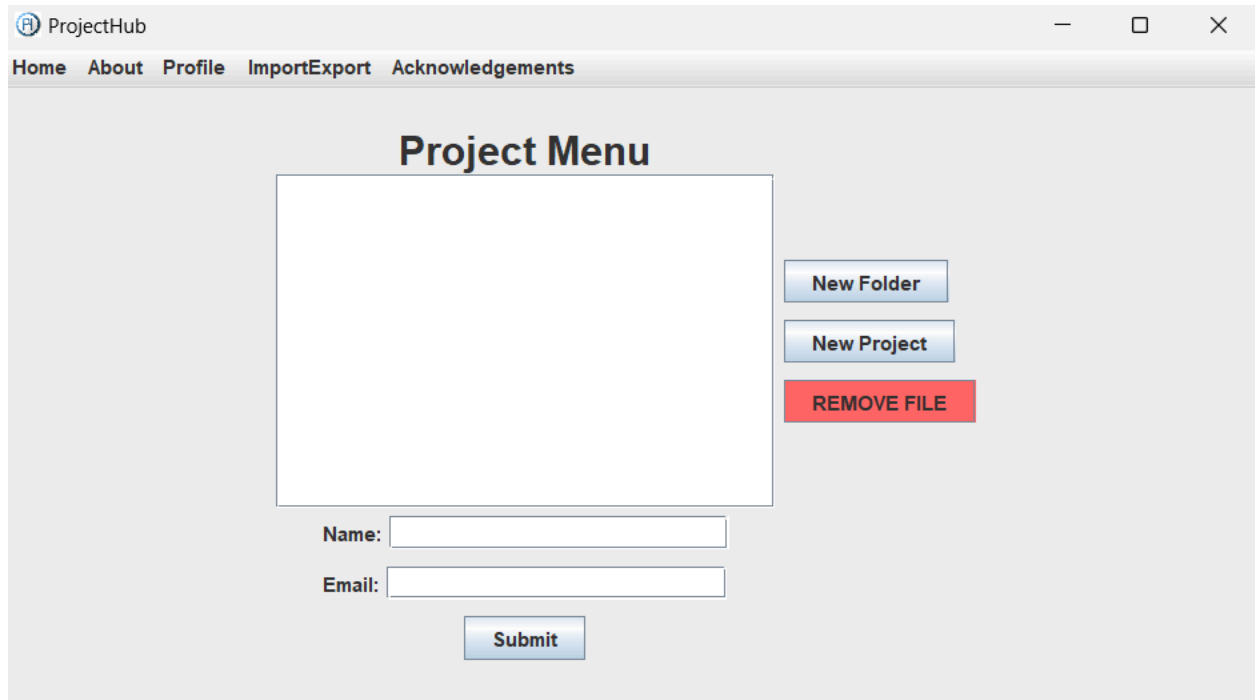
## Non-Functional Requirements:

- NF01: The app startup shouldn't take long to load
- NF02: The user interface should update fast
- NF03: The user interface should be intuitive and easy to navigate for users of all skill levels.
- NF04: The application should support multiple languages and regional settings to accommodate users from different geographical locations.

# How To Run The Application

## Home Screen

When you open the application, you will be presented with the Home Screen. Right now, there is only an empty settings.json that will contain the Owner's data on submission. There are currently no folders or projects created.

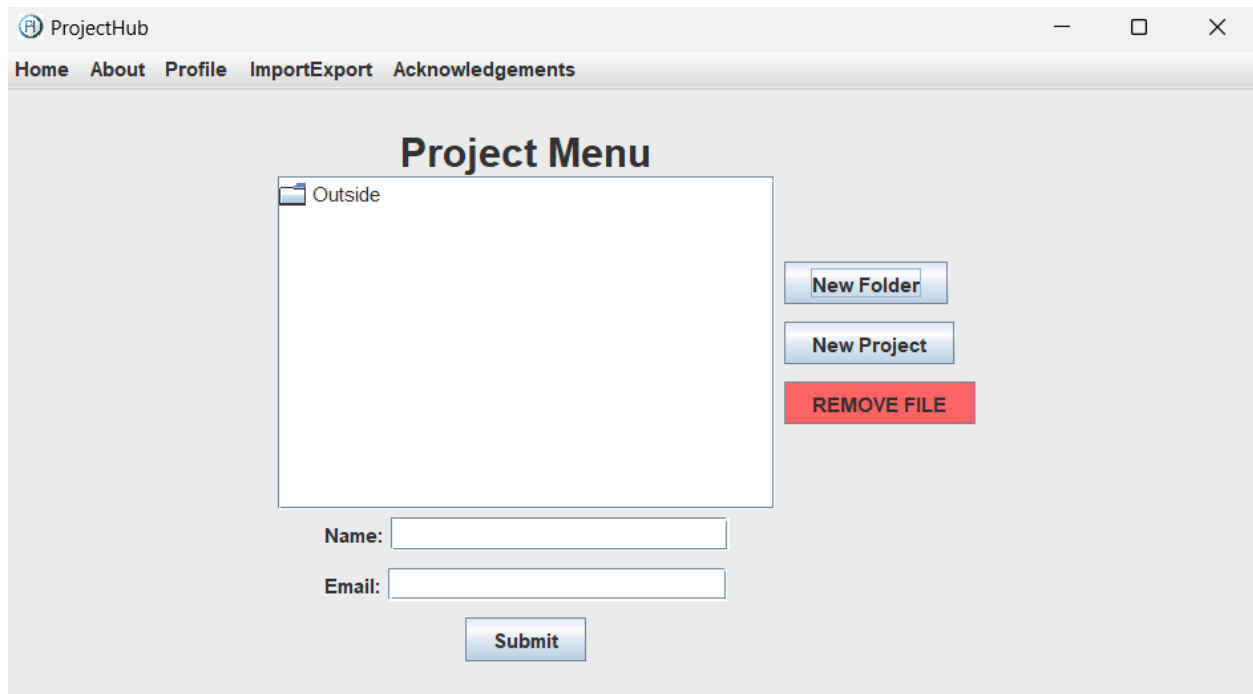
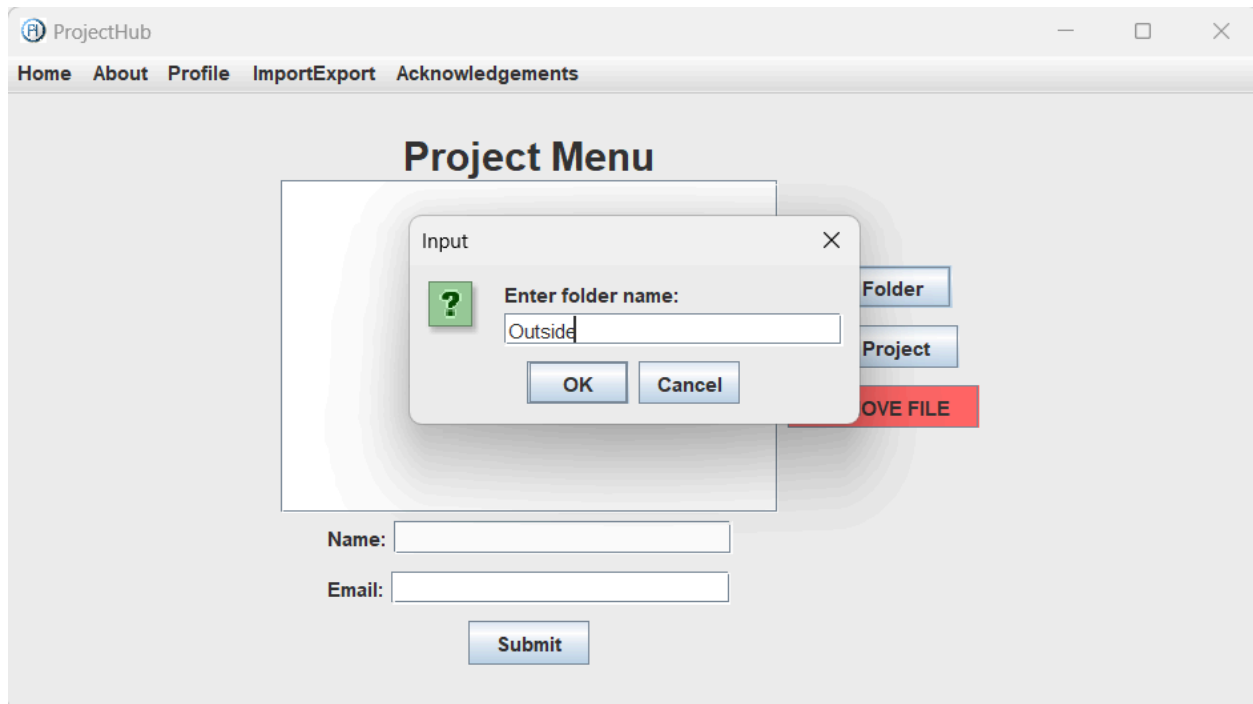


The screenshot shows a web application window titled "ProjectHub". The window has a navigation bar with links: Home, About, Profile, ImportExport, and Acknowledgements. The main content area is titled "Project Menu" and features a large empty white box. To the right of this box are three buttons: "New Folder", "New Project", and "REMOVE FILE" (which is red). Below the white box are two input fields labeled "Name:" and "Email:", followed by a "Submit" button.



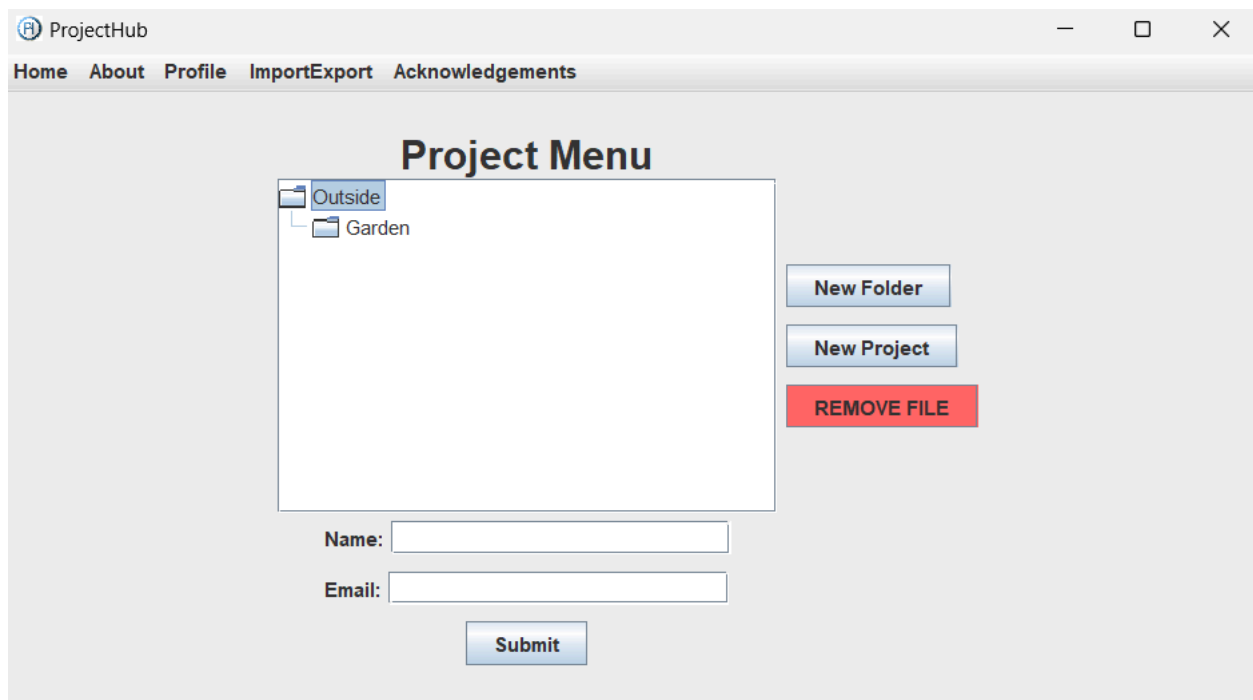
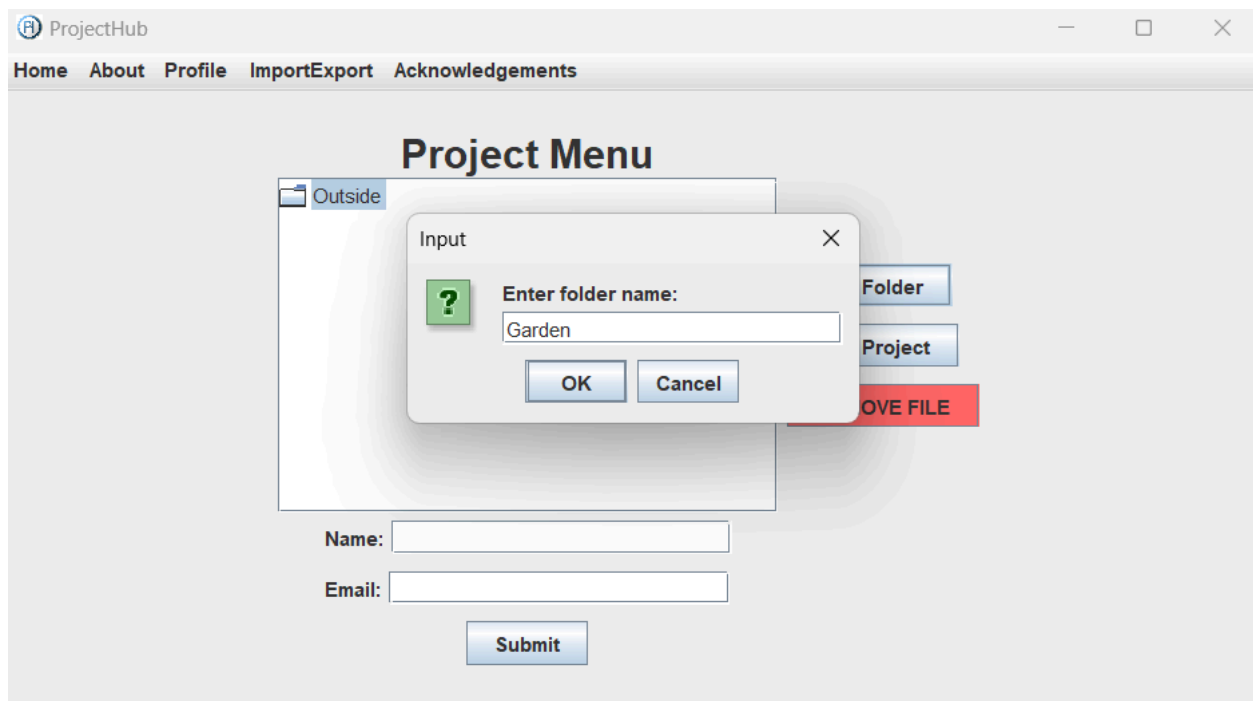
## Creating a Folder

Click on the “New Folder” button, you will be presented with a dialogue box asking for the name of the folder you wish to create. This folder will be created at the root level of the Project Menu



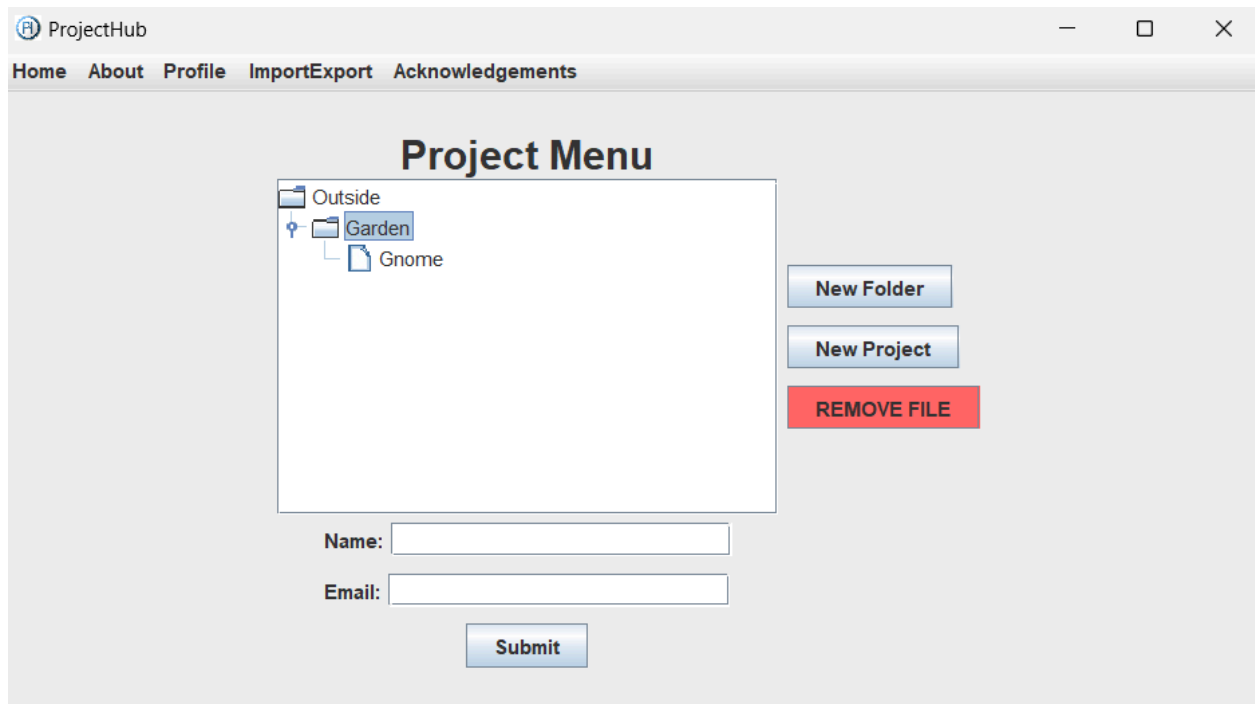
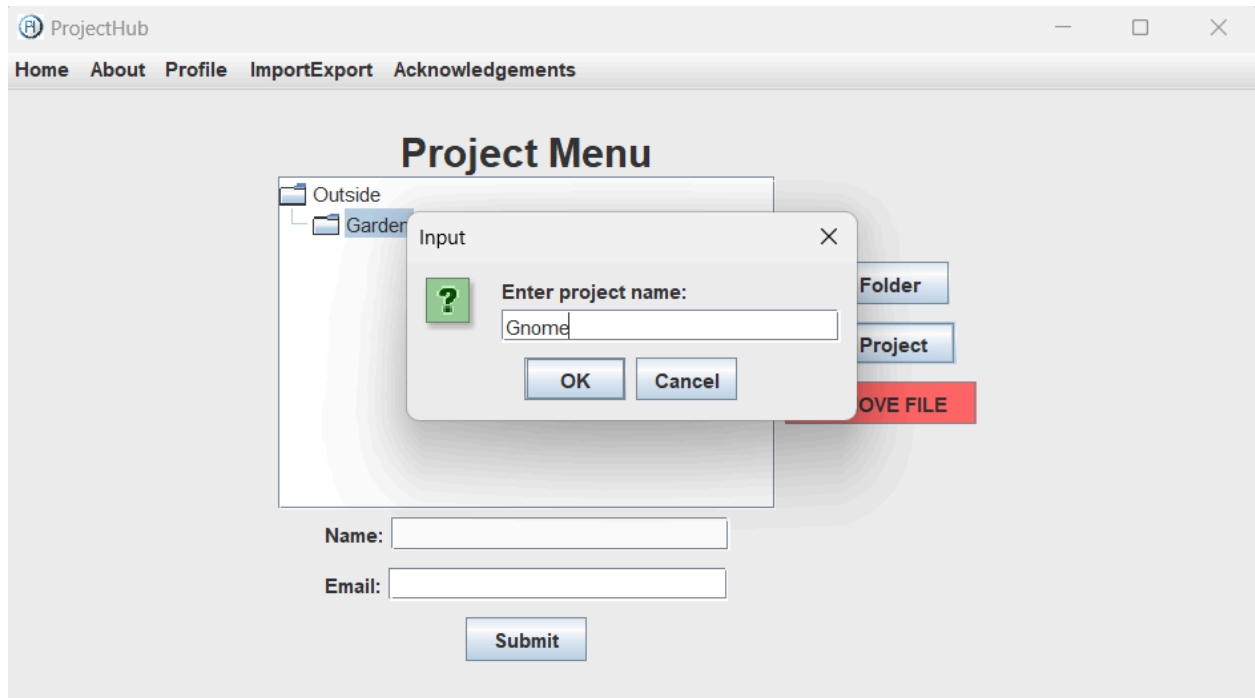
Right now, there is only a folder; no project or folder is contained in this folder. So we will add another folder to stay organized. Click/Highlight the folder you want to add to.

This will create a folder or project inside that folder depending on which button is pressed.



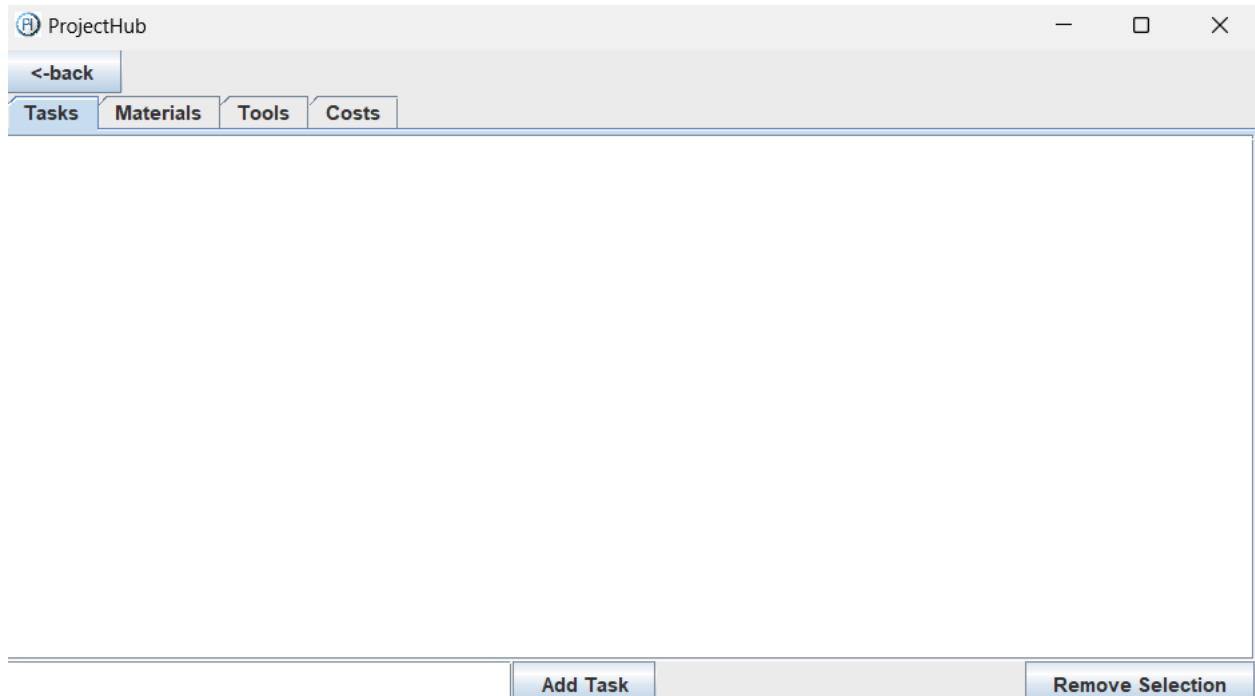
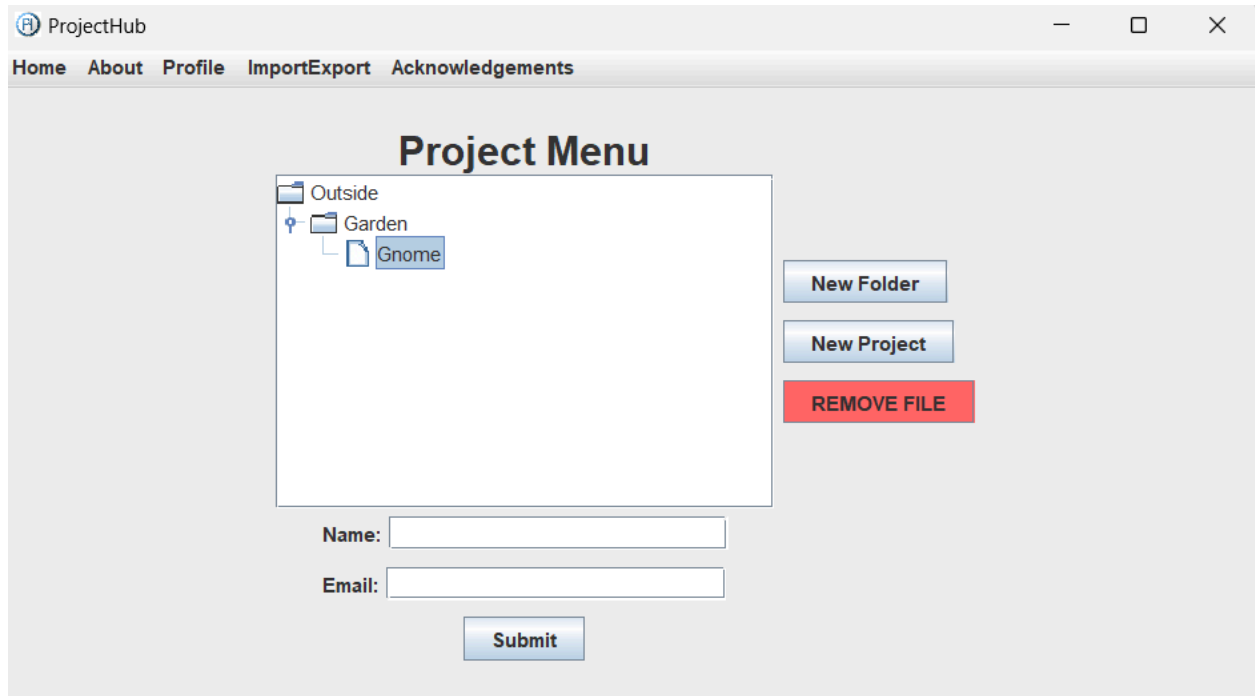
## Creating a Project

Now that we have two folders, it's time to create a project. Highlight the Garden folder to create a project inside that folder.



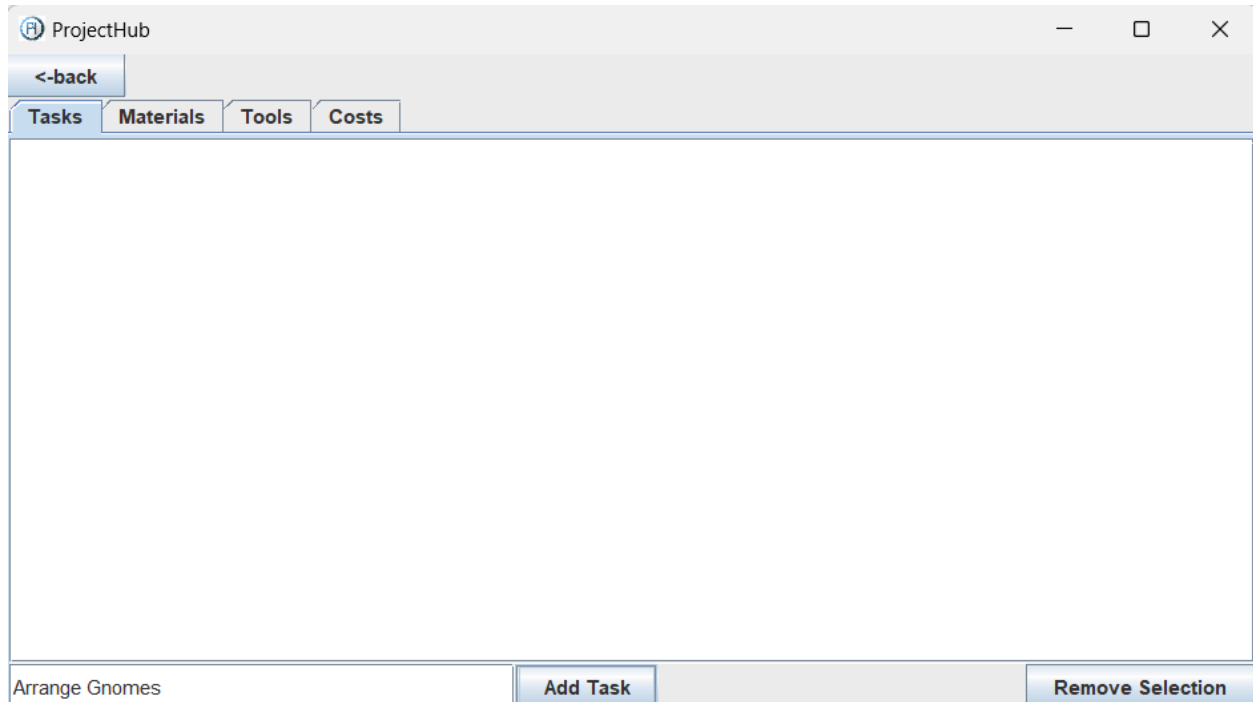
## Managing a Project

Now that we have an organized project directory, you can double-click on the project file in order to edit your project and enter the Project Screen.

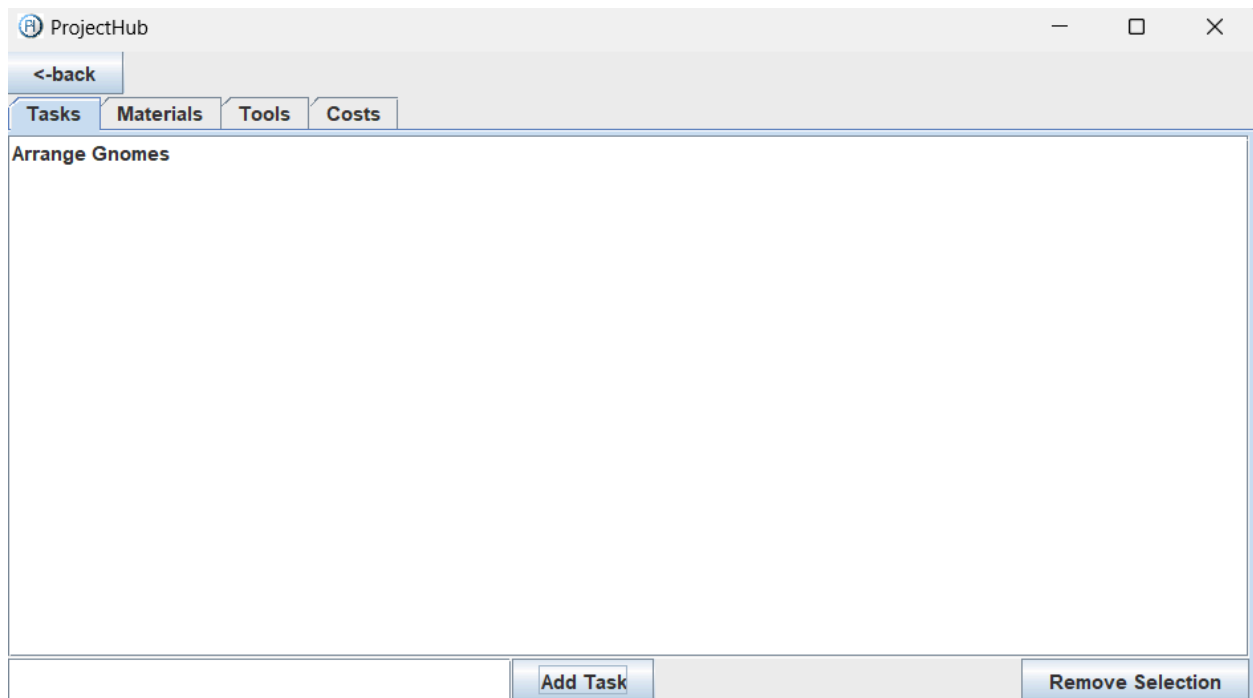


## Tasks

The first tab you'll be presented with is the task tab. Here you can add any number of tasks you need for your project. In order to add a task, select the entry field on the bottom left, type your task, and click the "Add Task" button.

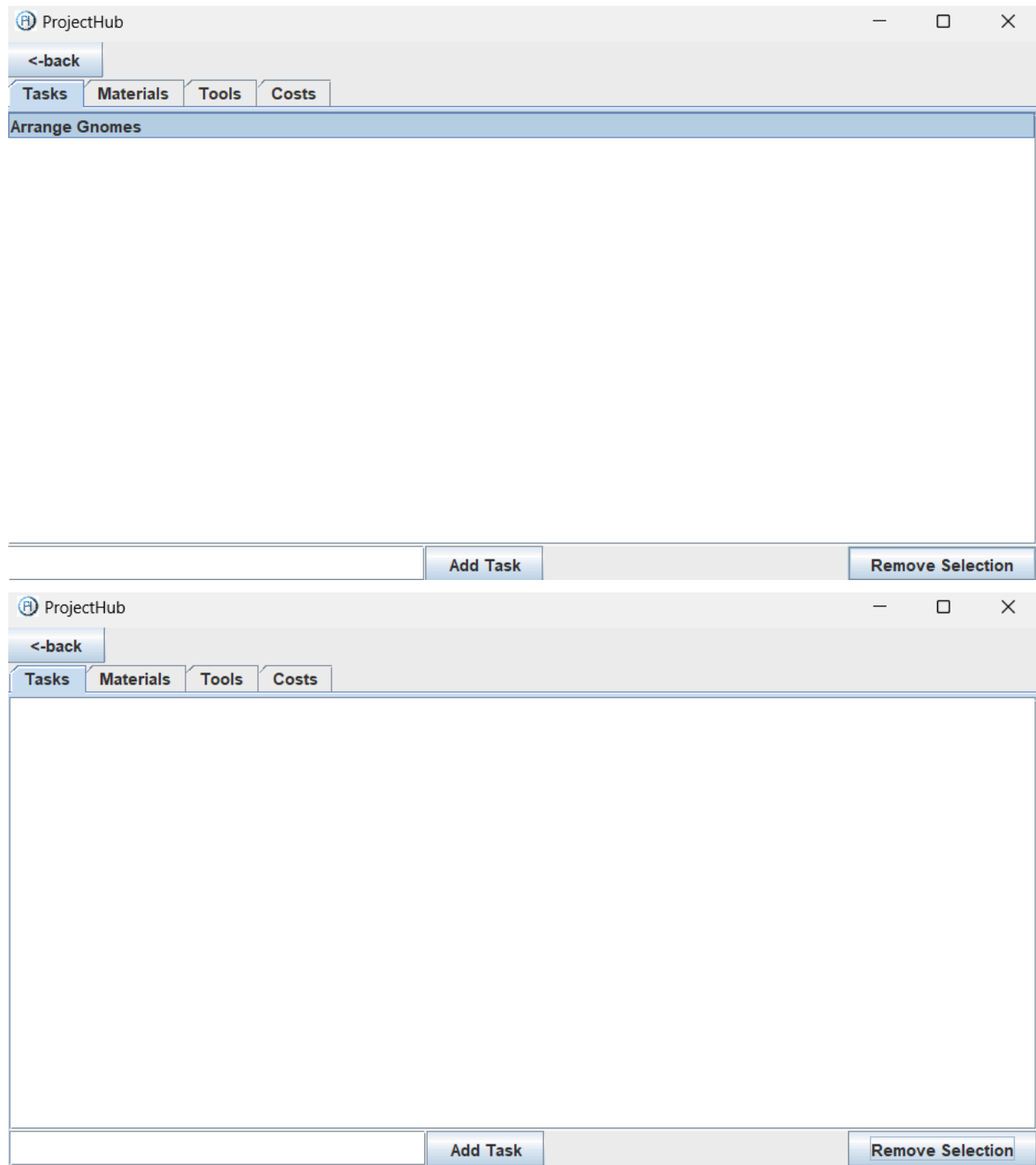


The screenshot shows a window titled "ProjectHub" with standard window controls (minimize, maximize, close). Below the title bar is a navigation bar with a "<-back" button and four tabs: "Tasks", "Materials", "Tools", and "Costs". The "Tasks" tab is currently selected. The main content area is a large, empty rectangular box. At the bottom of the window, there is a horizontal bar containing a text input field with the placeholder text "Arrange Gnomes", an "Add Task" button, and a "Remove Selection" button.



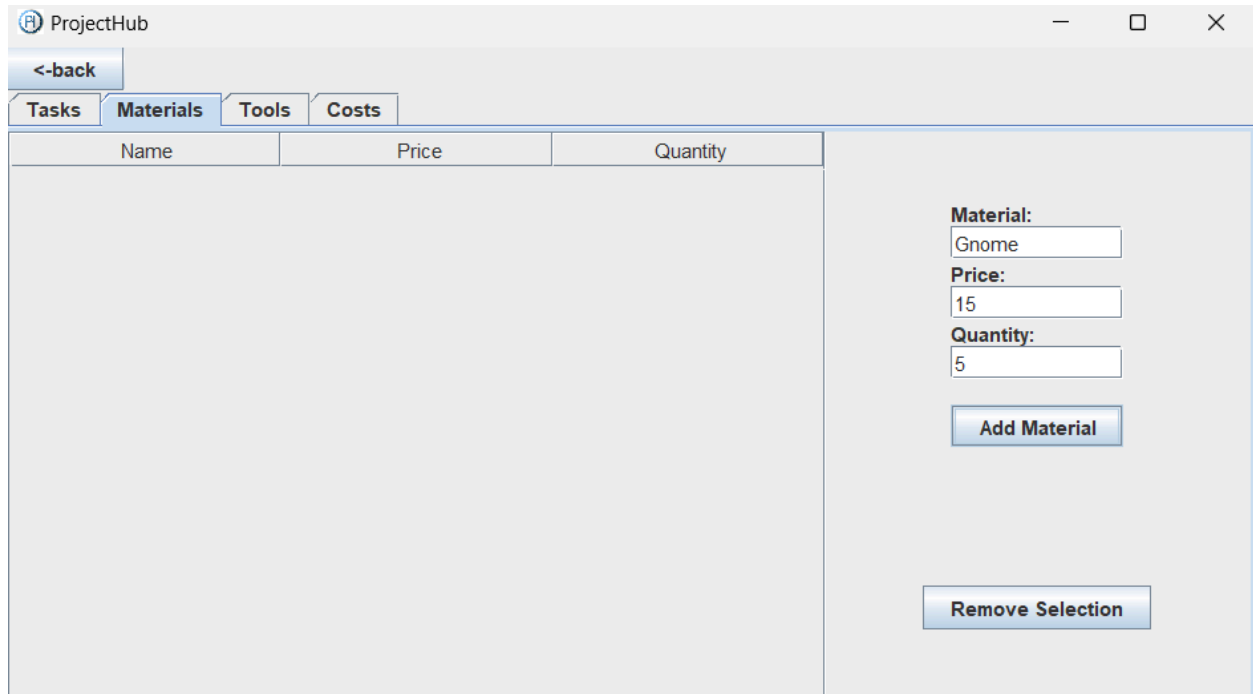
This screenshot shows the same "ProjectHub" window, but now the text "Arrange Gnomes" has been entered into the input field at the bottom left. The "Add Task" and "Remove Selection" buttons remain visible to the right of the input field. The rest of the interface, including the tabs and the main content area, is identical to the previous screenshot.

You can also remove selected tasks by clicking on the “Remove Selection” button.



## Materials

By clicking on the “Materials” tab, you will be presented with a new screen to add the materials’ name, cost, and quantity for your project. Just enter valid input for each textbox and click the “Add Material” button.



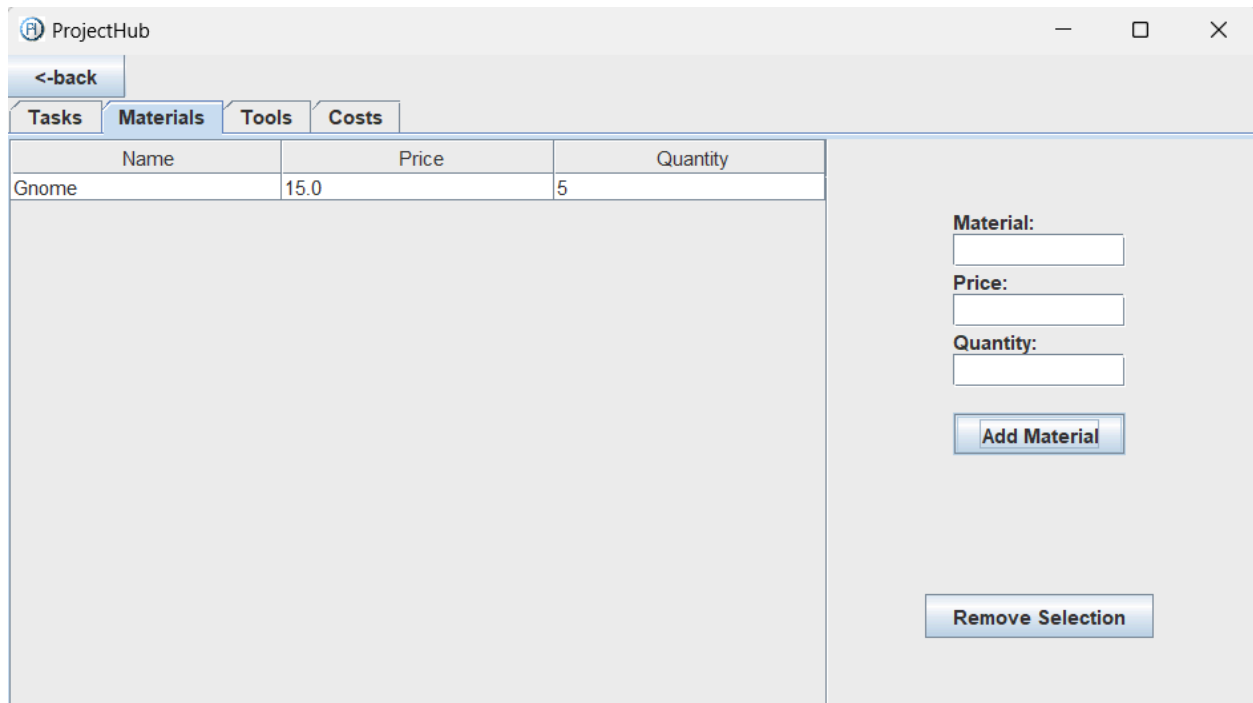
The screenshot shows the ProjectHub application window with the 'Materials' tab selected. The window has a title bar with the ProjectHub logo and standard window controls. Below the title bar is a navigation bar with a '<-back' button and four tabs: 'Tasks', 'Materials' (selected), 'Tools', and 'Costs'. The main area is divided into two sections. On the left is a table with three columns: 'Name', 'Price', and 'Quantity'. The table is currently empty. On the right is a form with three input fields labeled 'Material:', 'Price:', and 'Quantity:'. The 'Material:' field contains the text 'Gnome', the 'Price:' field contains '15', and the 'Quantity:' field contains '5'. Below these fields are two buttons: 'Add Material' and 'Remove Selection'.

Name	Price	Quantity
------	-------	----------

Material:

Price:

Quantity:



The screenshot shows the ProjectHub application window with the 'Materials' tab selected. The window has a title bar with the ProjectHub logo and standard window controls. Below the title bar is a navigation bar with a '<-back' button and four tabs: 'Tasks', 'Materials' (selected), 'Tools', and 'Costs'. The main area is divided into two sections. On the left is a table with three columns: 'Name', 'Price', and 'Quantity'. The table now contains one row with the data 'Gnome', '15.0', and '5'. On the right is a form with three input fields labeled 'Material:', 'Price:', and 'Quantity:'. The 'Material:' field is empty, the 'Price:' field is empty, and the 'Quantity:' field is empty. Below these fields are two buttons: 'Add Material' and 'Remove Selection'.

Name	Price	Quantity
Gnome	15.0	5

Material:

Price:

Quantity:

You can also remove selected materials by clicking on the “Remove Selection” button.

ProjectHub

<-back

TasksMaterialsToolsCosts

Name	Price	Quantity
Gnome	15.0	5
Flower	5.0	3

Material:

Price:

Quantity:

Add Material

Remove Selection

ProjectHub

<-back

TasksMaterialsToolsCosts

Name	Price	Quantity
Gnome	15.0	5

Material:

Price:

Quantity:

Add Material

Remove Selection



## Tools

By clicking on the “Tools” tab, you will be presented with a new screen to add the Tools’ name, cost, and quantity for your project. Just enter valid input for each textbox and click the “Add Tool” button.

ProjectHub

<-back

Tasks Materials **Tools** Costs

Name	Price	Quantity
------	-------	----------

Tool:  
Shovel

Price:  
20

Quantity:  
1

Add Tool

Remove Selection

ProjectHub

<-back

Tasks Materials **Tools** Costs

Name	Price	Quantity
Shovel	20.0	1

Tool:

Price:

Quantity:

Add Tool

Remove Selection

You can also remove selected tools by clicking on the “Remove Selection” button.

ProjectHub

<-back

TasksMaterialsToolsCosts

Name	Price	Quantity
Shovel	20.0	1
Axe	40.0	1

Tool:

Price:

Quantity:

Add Tool

Remove Selection

ProjectHub

<-back

TasksMaterialsToolsCosts

Name	Price	Quantity
Shovel	20.0	1

Tool:

Price:

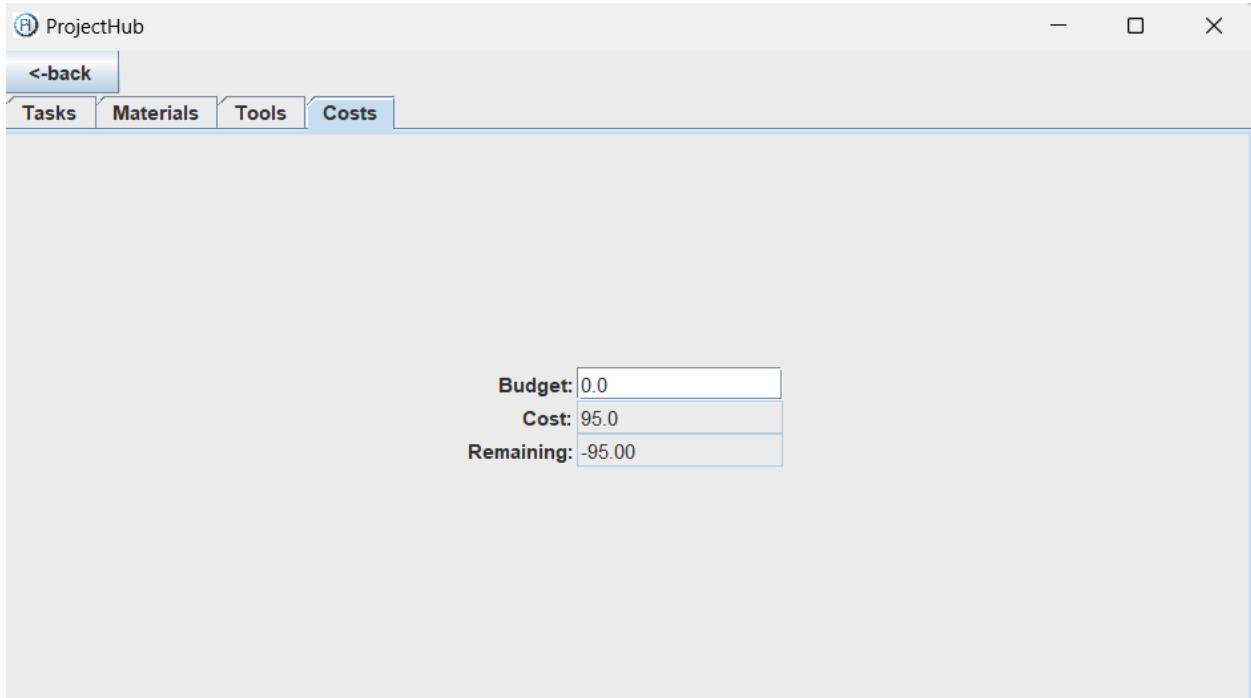
Quantity:

Add Tool

Remove Selection

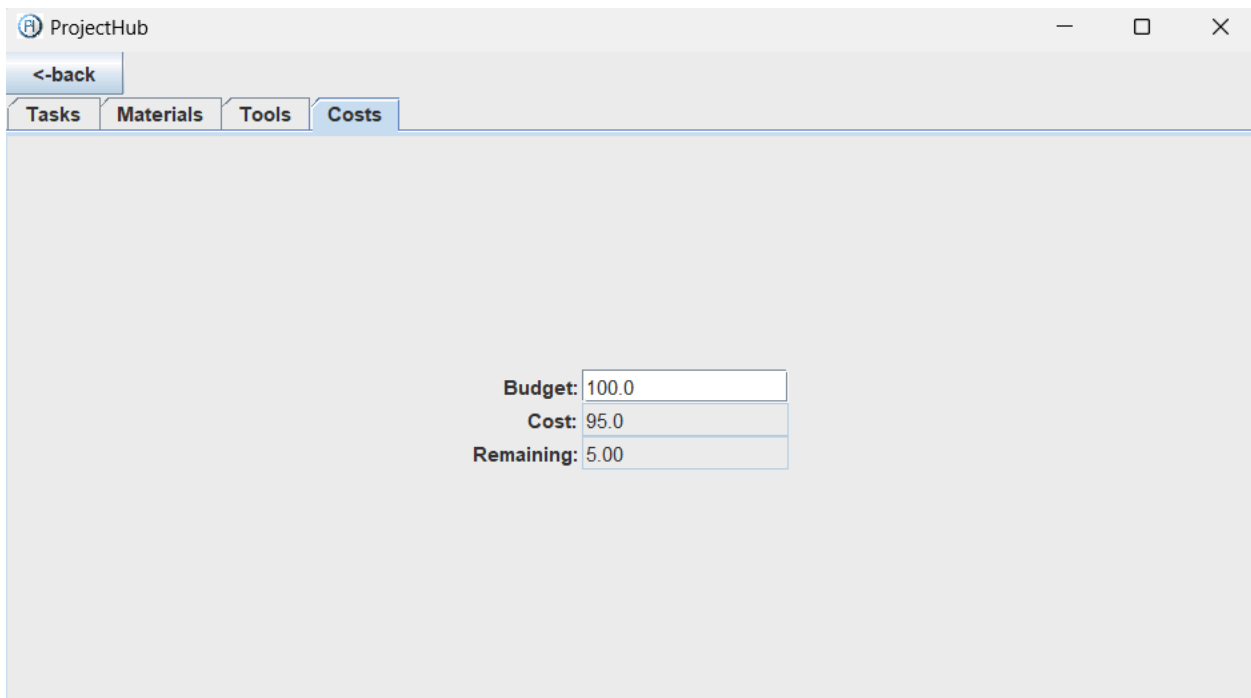
## Costs

By clicking on the “Costs” tab, you will be presented with a new screen to add the budget costs for your project. Just enter an amount in the “Budget:” entry field. The screen should automatically calculate the remaining amount.



The screenshot shows the ProjectHub application window with the 'Costs' tab selected. The interface includes a '<-back' button and tabs for 'Tasks', 'Materials', 'Tools', and 'Costs'. The main content area displays three input fields: 'Budget:' with the value '0.0', 'Cost:' with the value '95.0', and 'Remaining:' with the value '-95.00'.

Budget:	0.0
Cost:	95.0
Remaining:	-95.00



The screenshot shows the ProjectHub application window with the 'Costs' tab selected. The interface includes a '<-back' button and tabs for 'Tasks', 'Materials', 'Tools', and 'Costs'. The main content area displays three input fields: 'Budget:' with the value '100.0', 'Cost:' with the value '95.0', and 'Remaining:' with the value '5.00'.

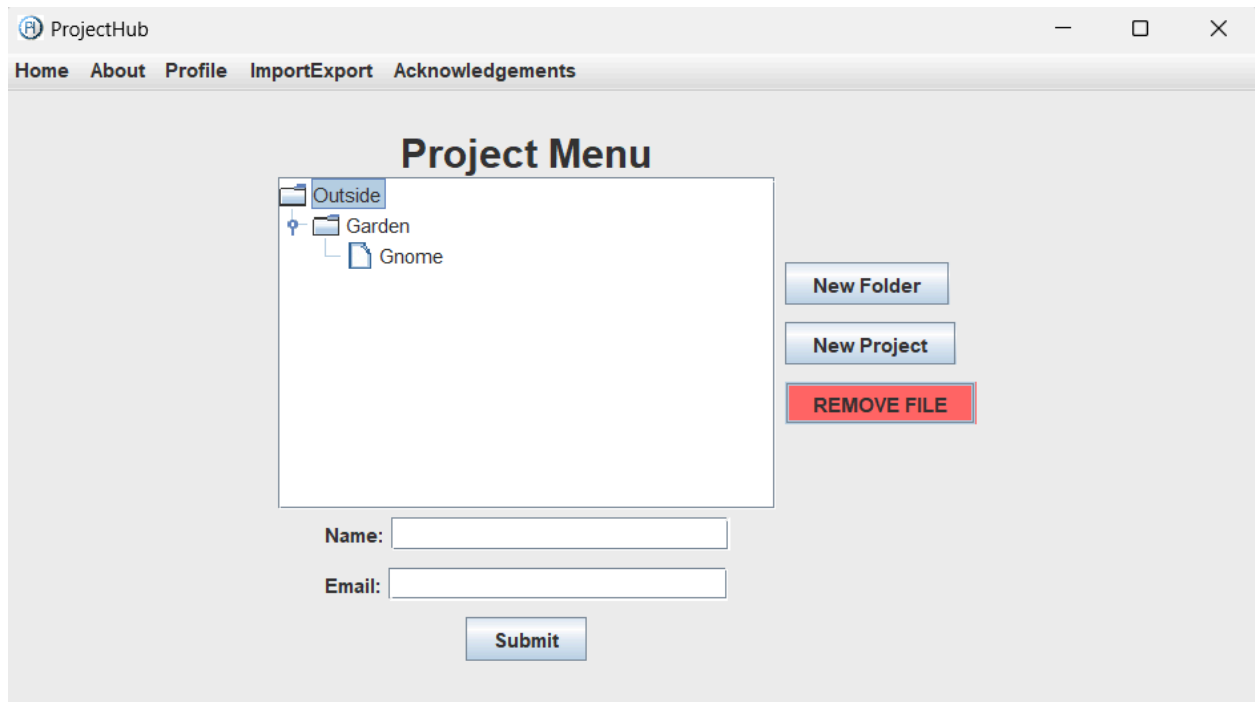
Budget:	100.0
Cost:	95.0
Remaining:	5.00

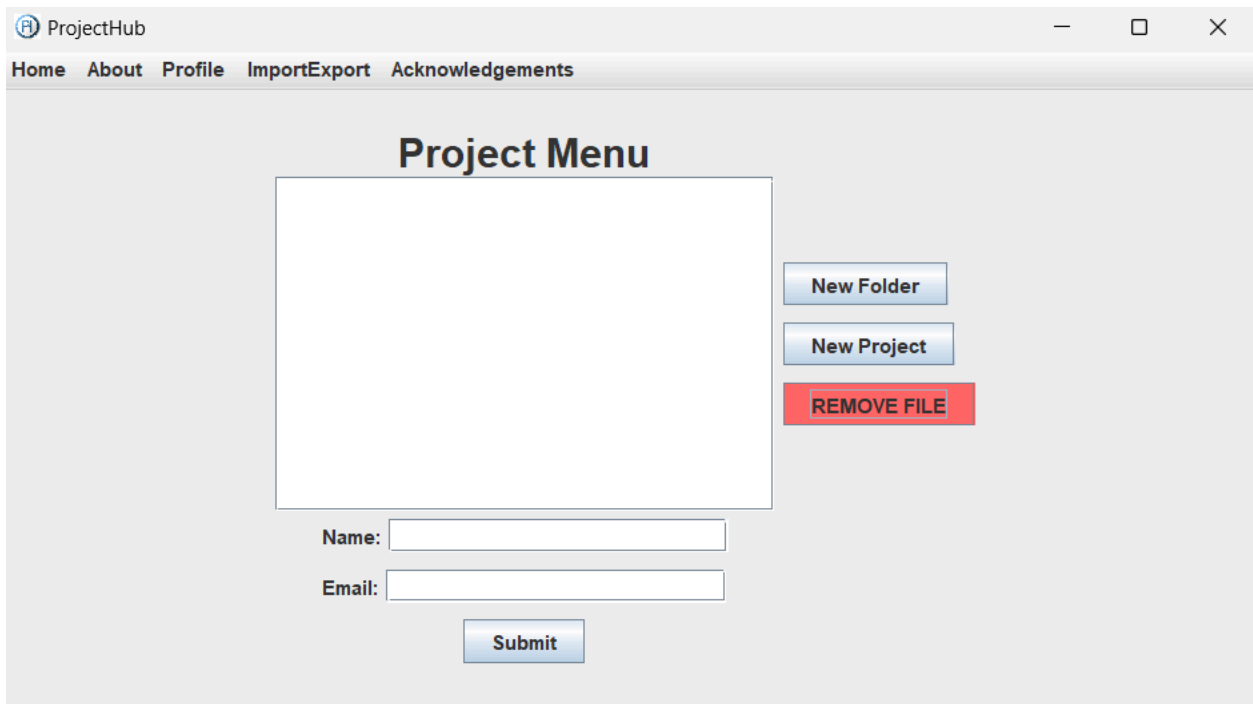
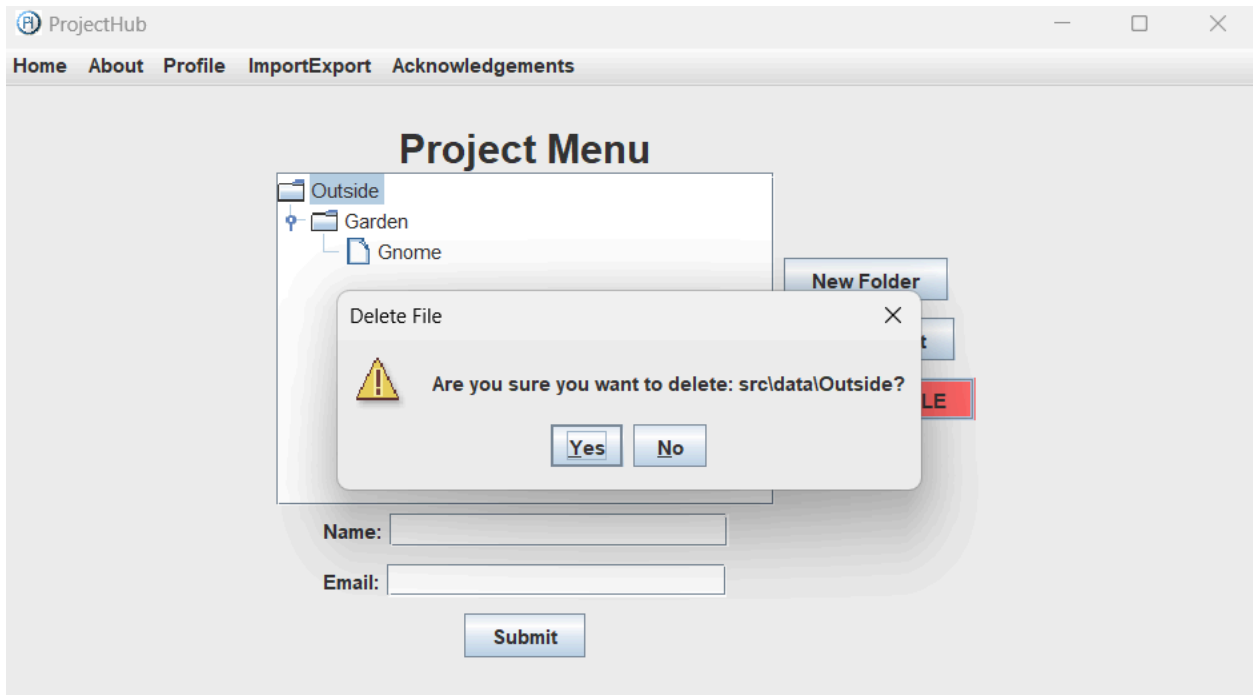
## Saving a Project

Saving a project is simple, just click the “<-back” button on the top left corner of the screen. This will save what was modified to the current JSON project.

## Deleting Folders and Projects

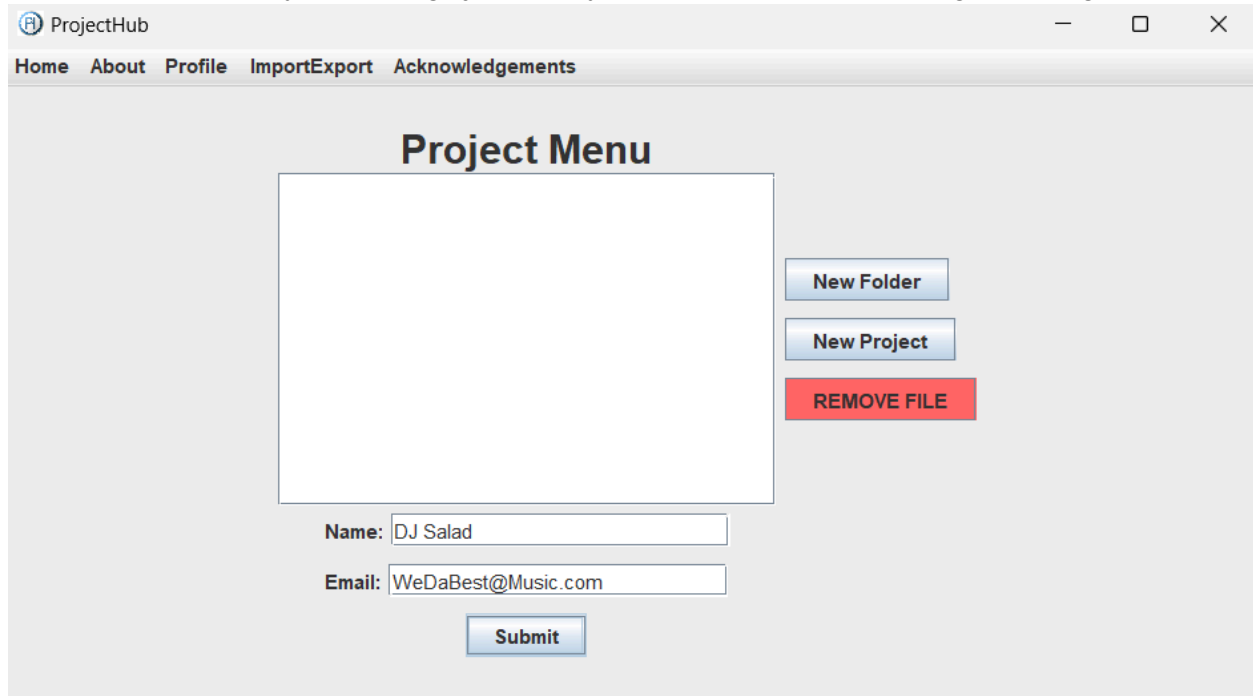
To delete a folder or project, simply highlight the folder or project you want to delete and press the “REMOVE FILE” button. You will be given a confirmation message because this will delete files and files inside folders.



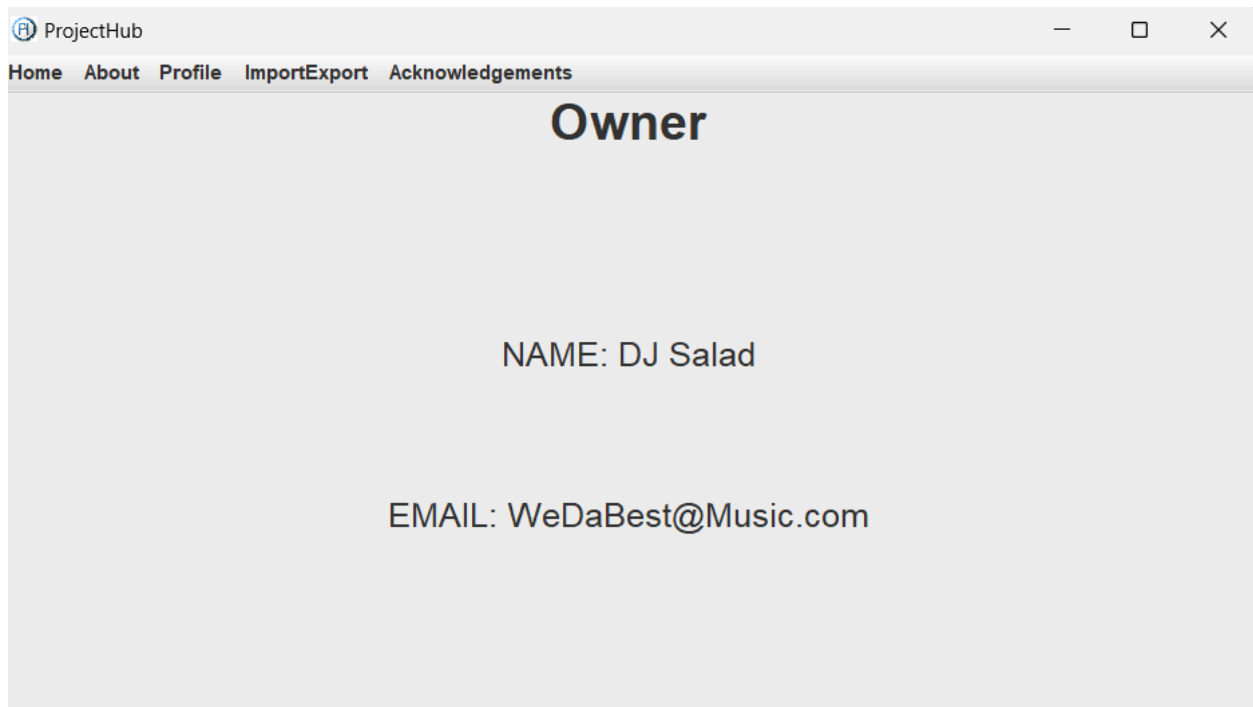


## Entering Settings

To enter your name and email, simply enter your information in the Name and Email entry fields and click the “Submit” button. You will see your information in the Profile Screen in the menu bar above. This will modify the settings.json with your information for importing/exporting.



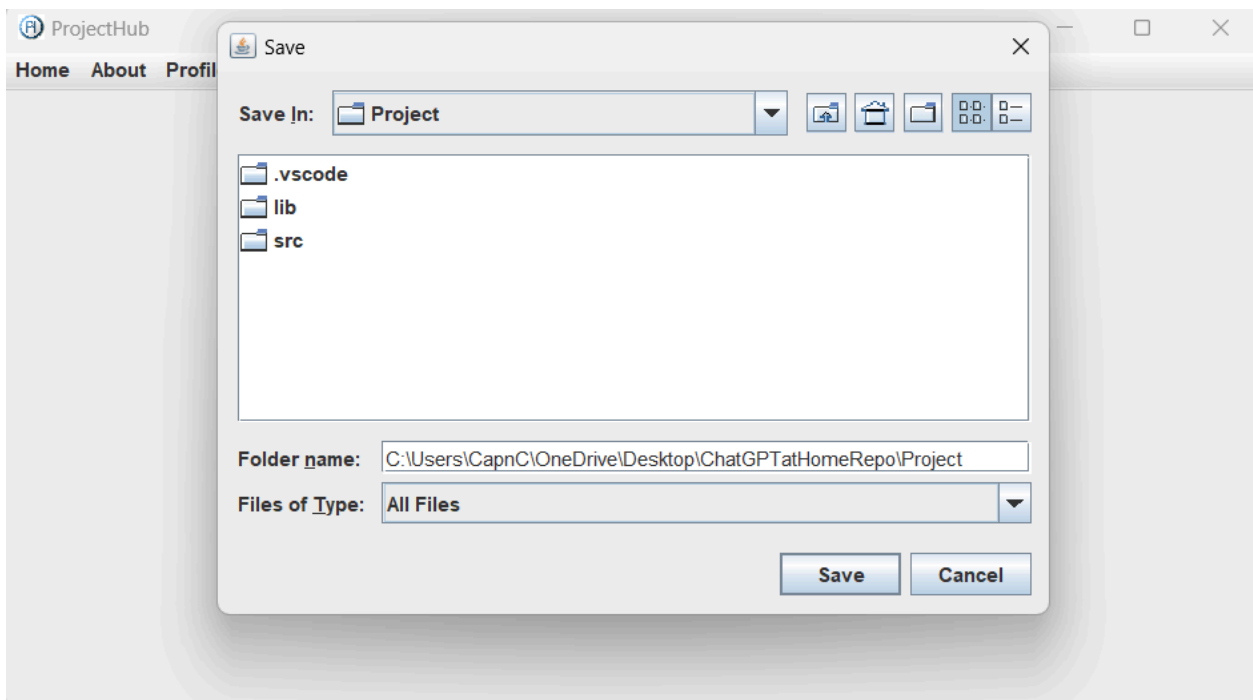
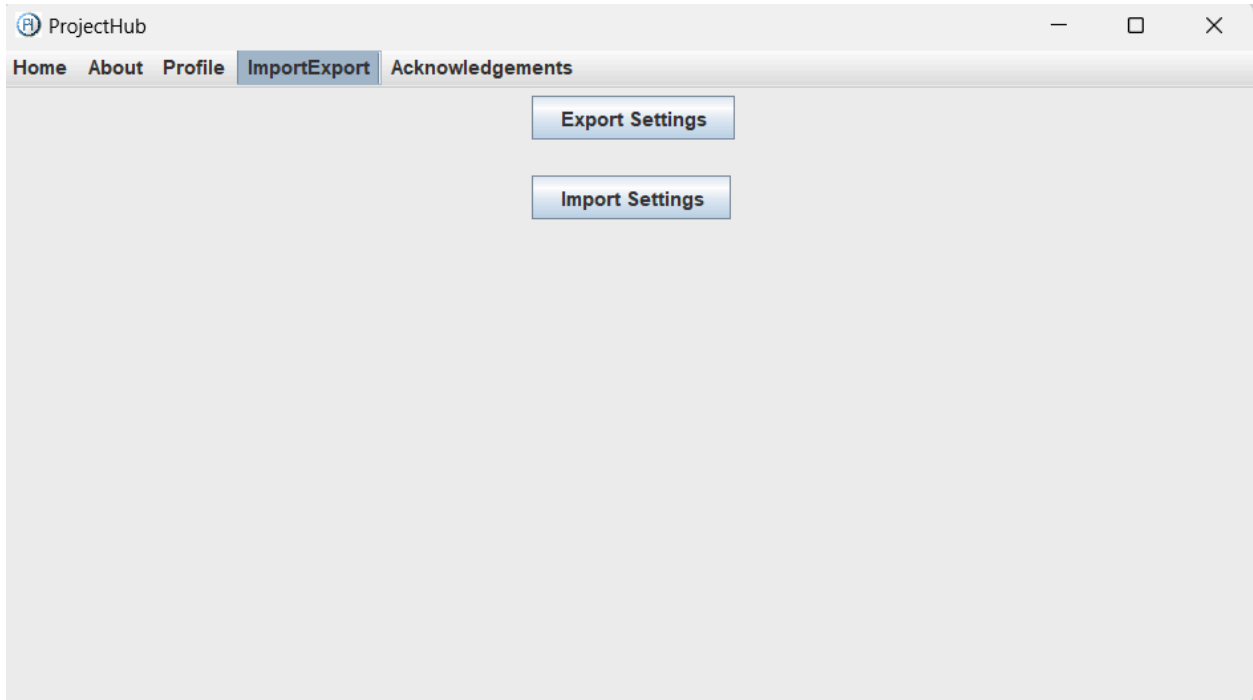
The screenshot shows a web browser window titled "ProjectHub". The navigation bar includes links for Home, About, Profile, ImportExport, and Acknowledgements. The main content area is titled "Project Menu" and features a large empty rectangular box on the left. To the right of this box are three buttons: "New Folder", "New Project", and "REMOVE FILE". Below the box, there are two input fields: "Name:" with the value "DJ Salad" and "Email:" with the value "WeDaBest@Music.com". A "Submit" button is located below these fields.

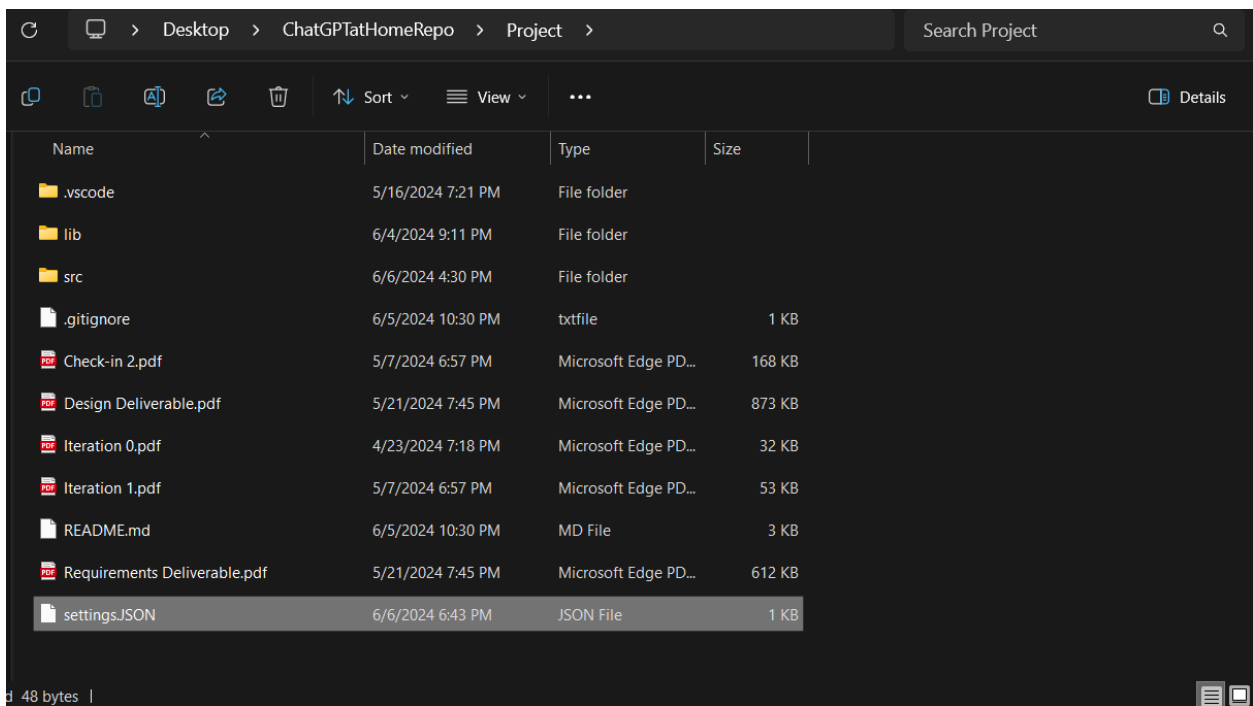
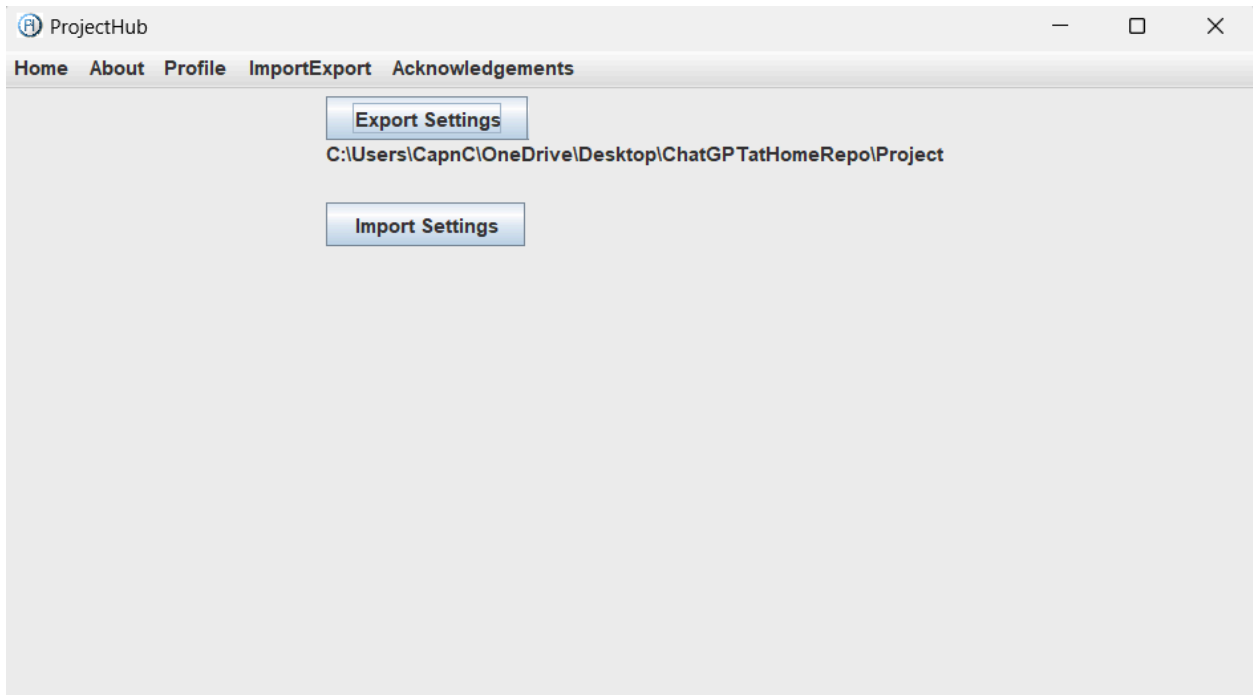


The screenshot shows a web browser window titled "ProjectHub". The navigation bar includes links for Home, About, Profile, ImportExport, and Acknowledgements. The main content area is titled "Owner". Below the title, the text "NAME: DJ Salad" is displayed. Further down, the text "EMAIL: WeDaBest@Music.com" is displayed.

## Exporting Settings

To export, go to the ImportExport Screen located in the menu bar. Click on the “Export Settings” button and you will be presented with a file viewer to export your settings. Choose the directory where you want to export your settings and a new settings.json file will be created there.

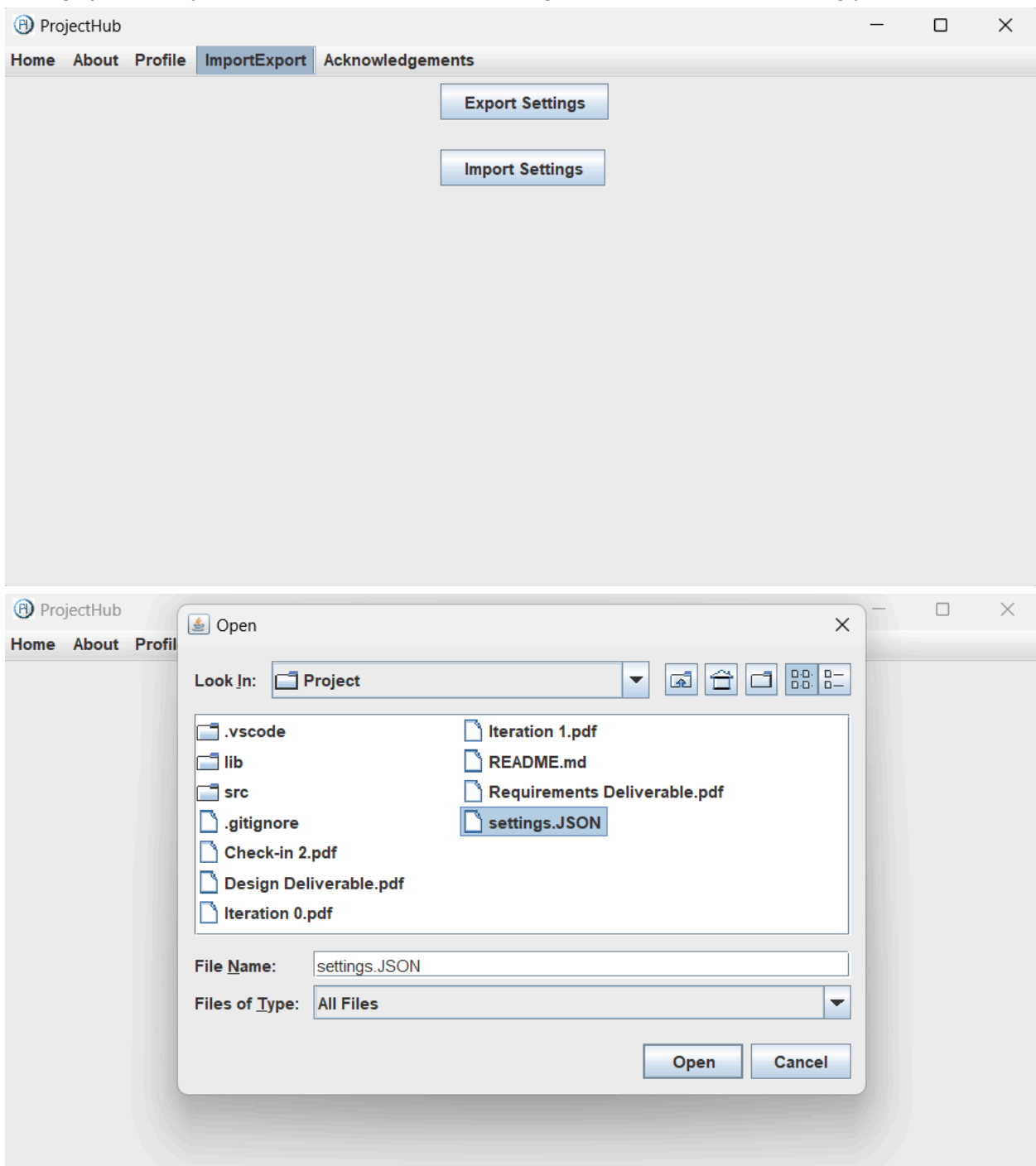


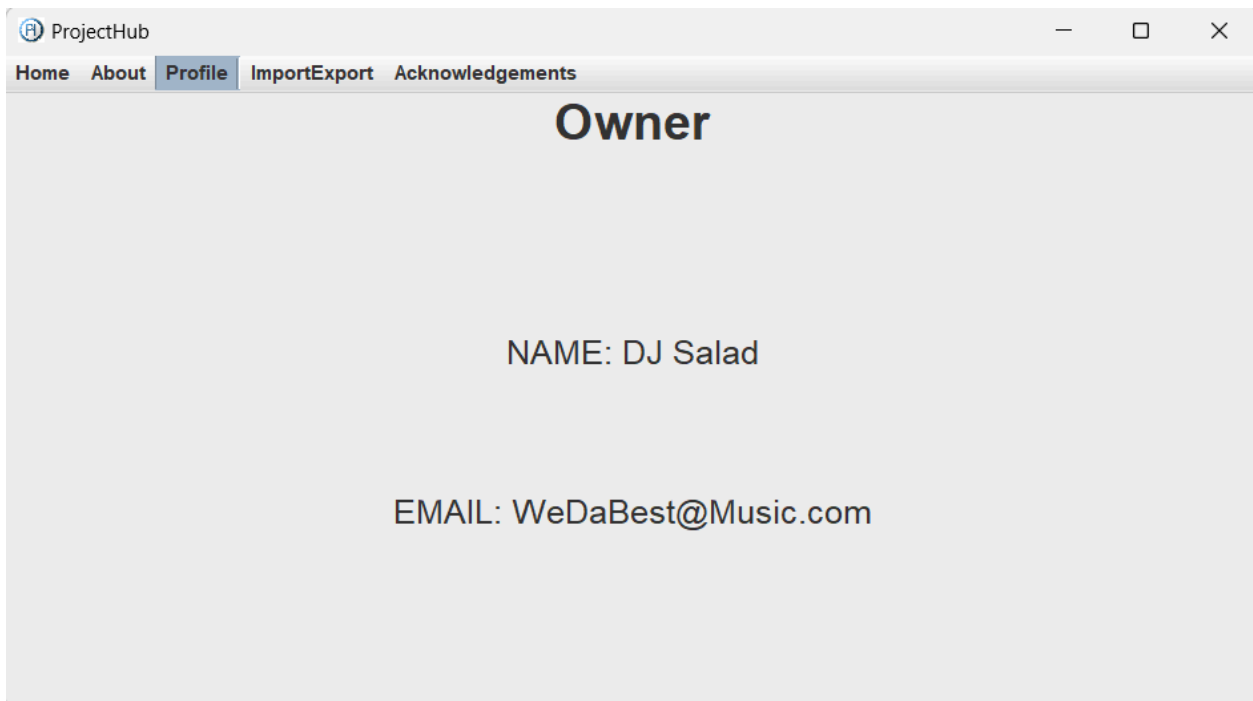
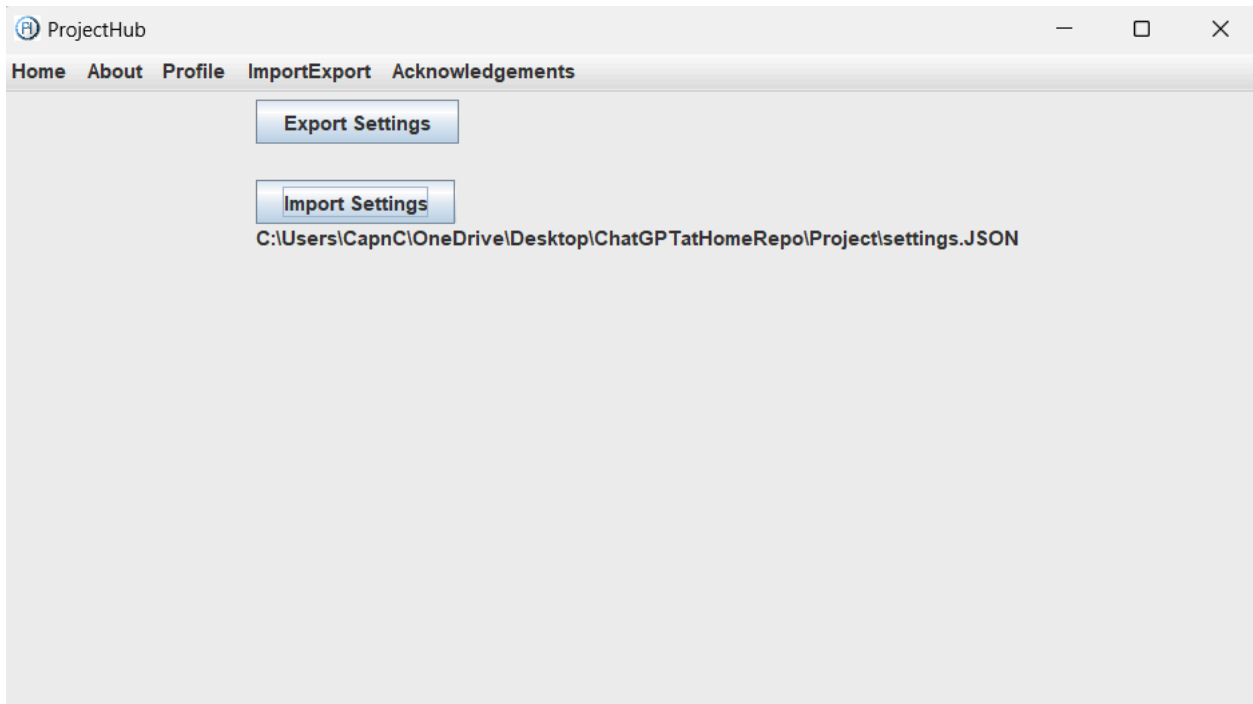




## Importing Settings

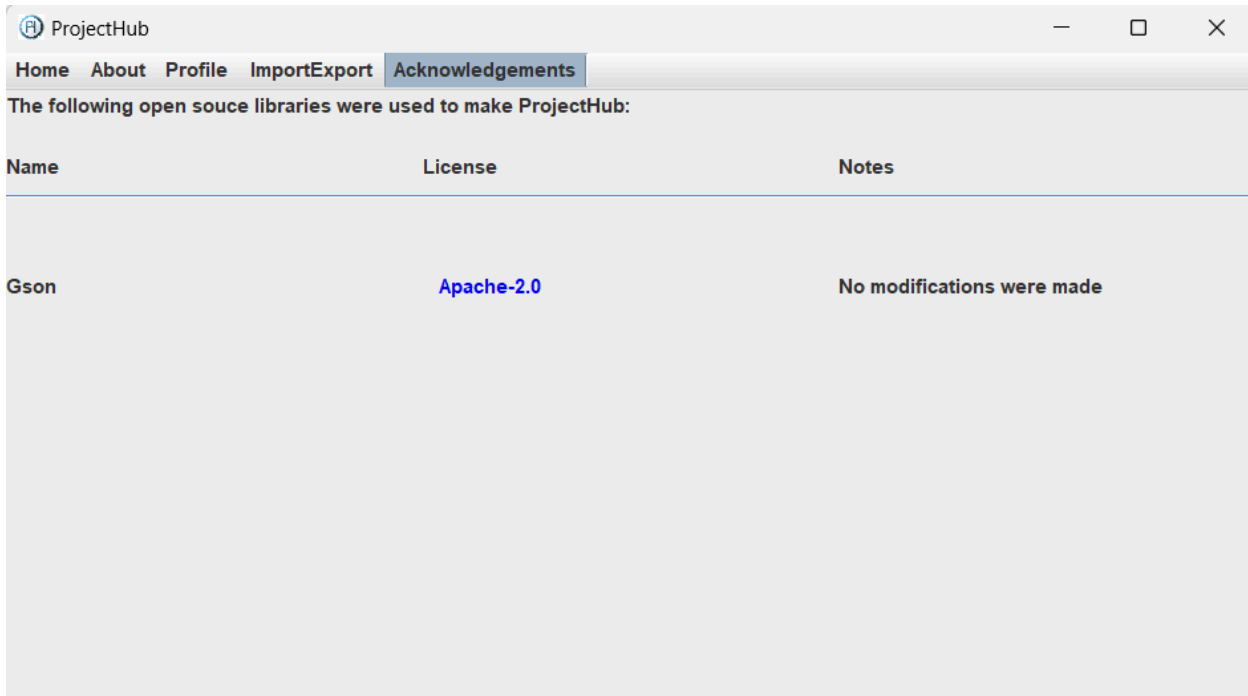
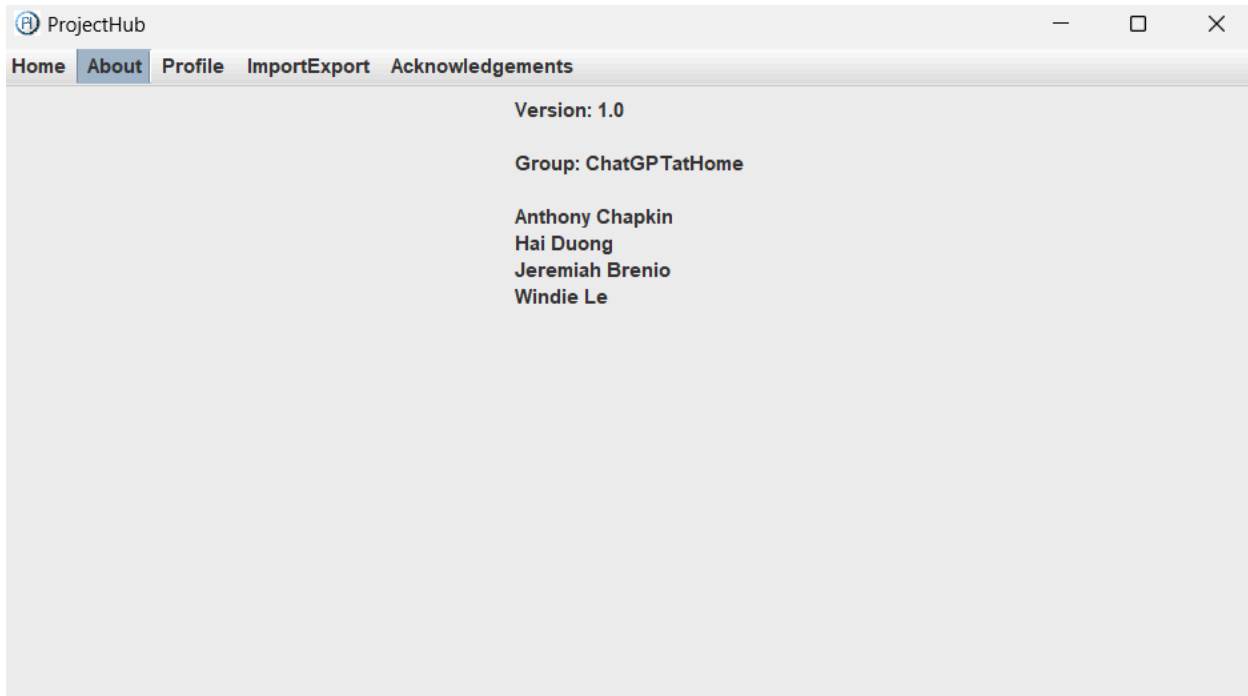
To import, go to the ImportExport Screen located in the menu bar. Click on the “Import Settings” button and you will be presented with a file viewer to import your settings. Choose the settings.json that you want to import and the settings will be updated accordingly.





## About and Acknowledgments Screen

Clicking on the About item and Acknowledgements item on the menu bar will present you with screens crediting the developers of the App and third-party software used for this project.



# Contributions

Person	Class-Method	Activity
Anthony Chapkin	ProjectHub Class - Main in Collab with Hai	Coding
Anthony Chapkin	About Class - All methods	Coding
Anthony Chapkin	ImportExport Class - All Methods	Coding
Anthony Chapkin	FolderTest Class - All Tests	Coding/Testing
Anthony Chapkin	AboutScreen Class - All methods	Coding
Anthony Chapkin	ImportExportScreen - All methods	Coding
Anthony Chapkin	MainFrame Class - Constructor in Collab with Hai and Jeremiah, toggleMenuBar()	Coding
Hai Duong	ProjectHub Class - Main in Collab with Anthony	Coding
Hai Duong	Models Class - All Methods	Coding
Hai Duong	PricedItem Record - All Methods	Coding
Hai Duong	Folder Class - All Methods	Coding
Hai Duong	Tab Abstract Class - All Abstract Methods	Coding
Hai Duong	TaskTab Class - All Methods	Coding
Hai Duong	MaterialTab Class - All Methods	Coding
Hai Duong	ToolTab Class - All Methods	Coding
Hai Duong	CostTab Class - All Methods	Coding
Hai Duong	TabScreen Abstract Class - All Abstract Methods	Coding
Hai Duong	TaskTabScreen Class - All Methods	Coding
Hai Duong	MaterialTabScreen Class - All Methods	Coding
Hai Duong	ToolTabScreen Class - All Methods	Coding
Hai Duong	CostTabScreen Class - All Methods	Coding

Hai Duong	FilteredTextField Class - All Methods	Coding
Hai Duong	GBComponent Interface - All Implementation	Coding
Hai Duong	HyperlinkLabel Class - All Methods	Coding
Hai Duong	LabeledTextField Class - All Methods	Coding
Hai Duong	ListJListSyncer Class - All Methods	Coding
Hai Duong	PricedItemTable Class - All Methods	Coding
Hai Duong	SubmittableTextField Class - All Methods	Coding
Hai Duong	ProjectTest Class - All Tests	Coding/Testing
Hai Duong	ProfileScreen Class - Constructor in Collab with Jeremiah, getName()	Coding
Hai Duong	HomeScreen Class - Constructor in Collab with Jeremiah and Windie, createEntryFields()	Coding
Hai Duong	MainFrame Class - Constructor in collab with Anthony and Jeremiah, getModelSource(), hasModelConstructor(), addCard(), addMenuTab(), focusCard()	Coding
Jeremiah Brenio	ProfileScreen Class - Constructor in Collab with Hai, update()	Coding
Jeremiah Brenio	HomeScreen Class - Constructor in Collab with Hai and Windie, createJTree(), retrieveJSONFiles(), createMoifyPanel()	Coding
Jeremiah Brenio	Project Class - All Methods	Coding
Jeremiah Brenio	CustomTreeCellRenderer Class - All Methods	Coding
Jeremiah Brenio	ImportExportTest Class - All Tests	Coding/Testing
Jeremiah Brenio	MainFrame Class - Constructor in Collab with Hai and Anthony, start()	Coding
Windie Le	ProjectScreen - All Methods	Coding
Windie Le	HomeScreen - createProjectListPanel()	Coding
Windie Le	AboutTest Class - All Tests	Coding/Testing

Windle Le	TaskTabTest Class - All Tests	Coding/Testing
Windle Le	MaterialTabTest Class - All Tests	Coding/Testing
Windle Le	ToolTabTest Class - All Tests	Coding/Testing
Windle Le	CostTabTest Class - All Tests	Coding/Testing
Windle Le	PricedItemTest Class - All Tests	Coding/Testing

# Tests

TESTING

Filter (e.g. text, !exclude, @tag)

59/59 5.0s

- Project 761ms
  - tests 761ms
    - AboutTest 142ms
      - testDefaultConstructor() 1.0ms
      - testUpdateAboutSuccessful() 3.0ms
      - testVersion() 3.0ms
      - testDevelopers() 5.0ms
      - testGroupName() 130ms
    - CostTabTest 10ms
      - testInitialState() 2.0ms
      - testSetAndGetBudget() 2.0ms
      - testGetKey() 2.0ms
      - testAddCostSourceAndGetCost() 1.0ms
      - testGetRemaining() 2.0ms

PROBLEMS TEST COVERAGE

- src 44.61%
  - controller 0.00%
  - model 83.29%
    - About.java 95.83%
    - CostTab.java 100.00%
    - Folder.java 87.90%
    - ImportExport.java 96.36%
    - MaterialTab.java 100.00%
    - Models.java 0.00%
    - PricedItem.java 100.00%
    - Project.java 59.26%
    - Tab.java 100.00%
    - TaskTab.java 100.00%
    - ToolTab.java 100.00%
  - tests 97.15%
  - view 0.00%

TESTING

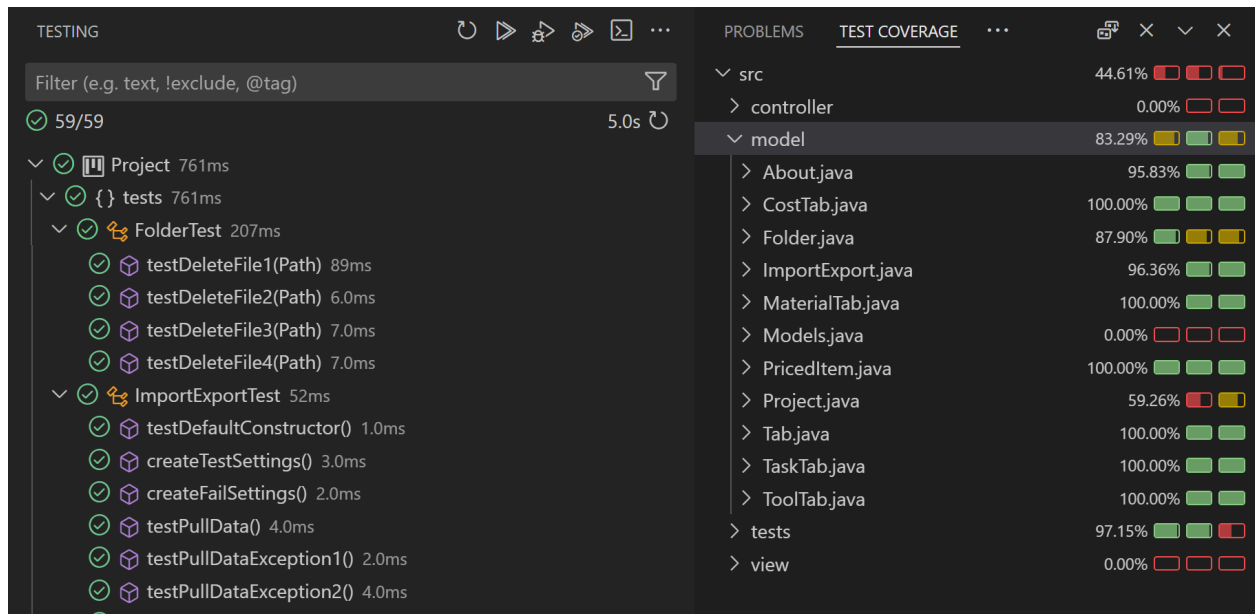
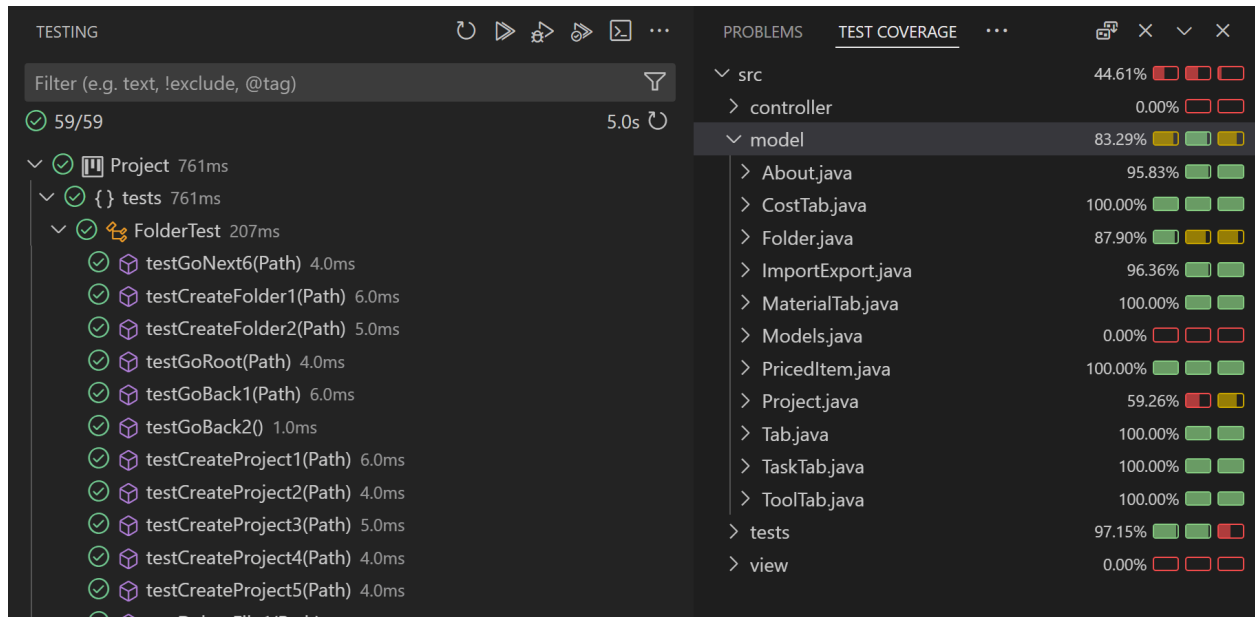
Filter (e.g. text, !exclude, @tag)

59/59 5.0s

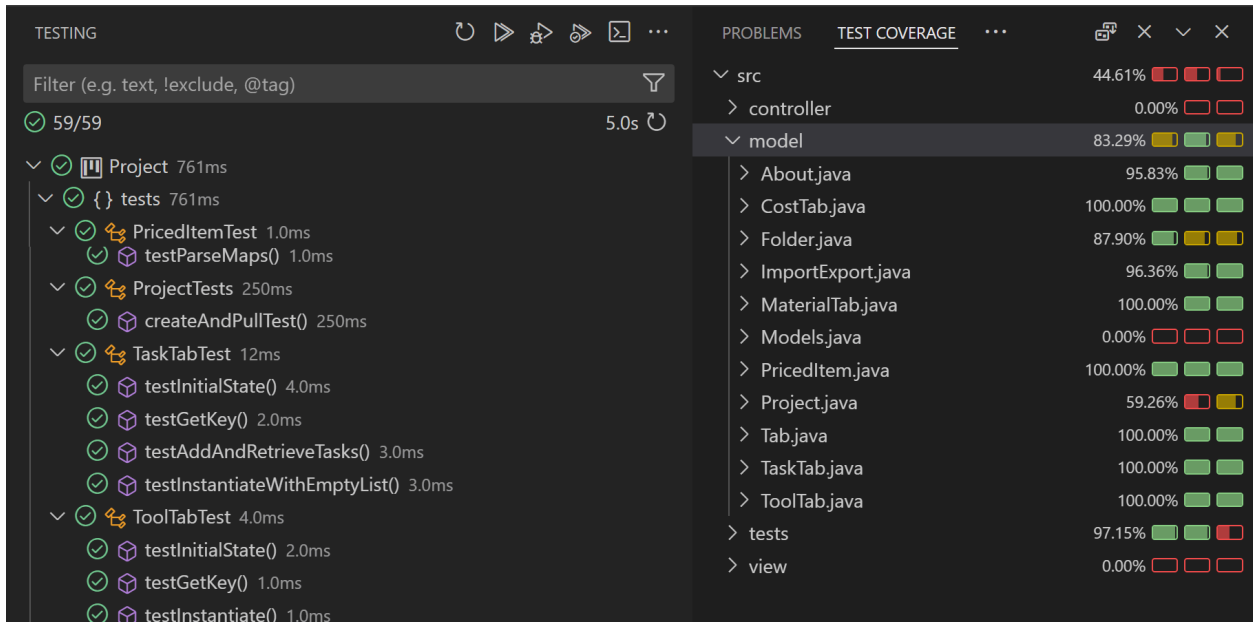
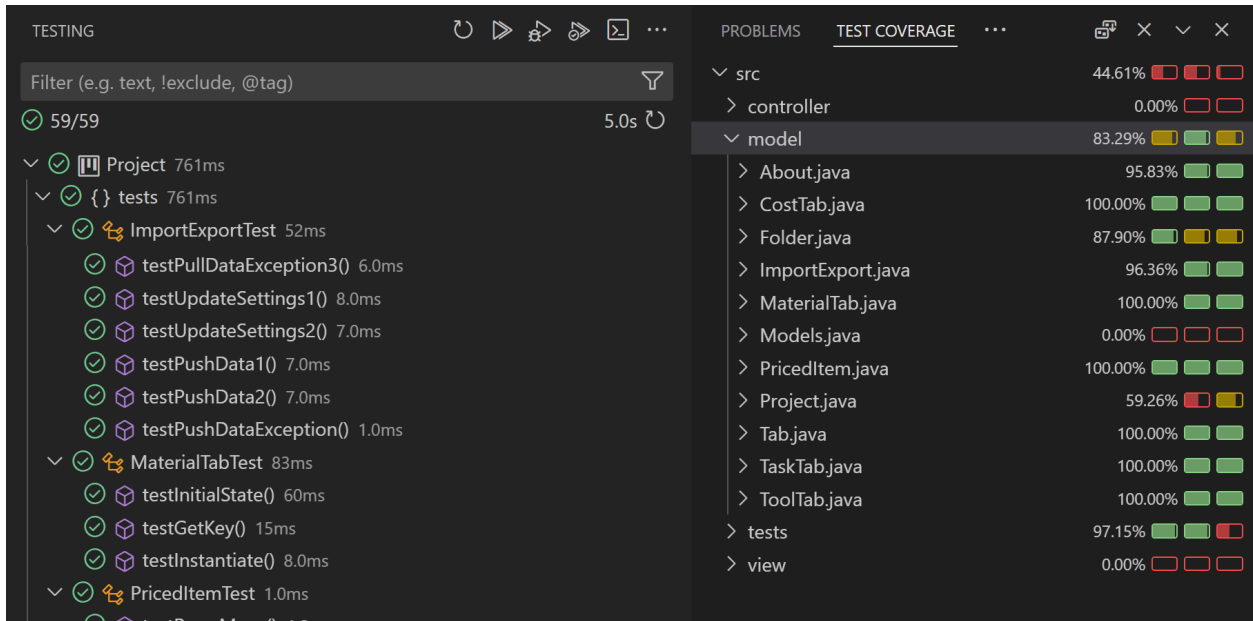
- Project 761ms
  - tests 761ms
    - CostTabTest 10ms
      - testInstantiate() 1.0ms
    - FolderTest 207ms
      - testListFiles1(Path) 5.0ms
      - testListFiles2(Path) 6.0ms
      - testListFiles3(Path) 7.0ms
      - testListFiles4(Path) 7.0ms
      - testGoNext1(Path) 7.0ms
      - testGoNext2(Path) 4.0ms
      - testGoNext3(Path) 5.0ms
      - testGoNext4(Path) 4.0ms
      - testGoNext5(Path) 4.0ms

PROBLEMS TEST COVERAGE

- src 44.61%
  - controller 0.00%
  - model 83.29%
    - About.java 95.83%
    - CostTab.java 100.00%
    - Folder.java 87.90%
    - ImportExport.java 96.36%
    - MaterialTab.java 100.00%
    - Models.java 0.00%
    - PricedItem.java 100.00%
    - Project.java 59.26%
    - Tab.java 100.00%
    - TaskTab.java 100.00%
    - ToolTab.java 100.00%
  - tests 97.15%
  - view 0.00%







# Source Catalog

/Project

  /src

    /controller

      ProjectHub.java

    /data

      about.JSON

      Gson\_license.txt

      PH.png

      settings.JSON

  /libraries

    gson-2.10.1

  /model

    About.java

    CostTab.java

    Folder.java

    ImportExport.java

    MaterialTab.java

    Models.java

    PricedItem.java

    Project.java

    Tab.java

    TaskTab.java

    ToolTab.java

  /tests

    AboutTest.java

    CostTabTest.java

    FolderTest.java

    ImportExportTest.java

    MaterialTabTest.java

    PricedItemTest.java

    ProjectTests.java

    TaskTabTest.java

    ToolTabTest.java

/view

/components

CustomTreeCellRenderer.java

FilteredTextField.java

GBComponent.java

HyperlinkLabel.java

LabeledTextField.java

ListJListSyncer.java

PricedItemTable.java

SubmittableTextField.java

AboutScreen.java

AcknowledgementsScreen.java

CostTabScreen.java

HomeScreen.java

ImportExportScreen.java

MainFrame.java

MaterialTabScreen.java

ProfileScreen.java

ProjectScreen.java

Screen.java

TaskTabScreen.java

ToolTabScreen.java