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| Reversible Computation |
| User Manual |
| V2 |

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# Project Introduction

This guide will show you how to use the application and demonstrate its features and functions.

Reversible Computation is about the ability to begin in any state of a program and execute the program in reverse, restoring each intermediate state.

This application serves as a home for Reversible Computation Research. It introduces the concept to new visitors, whilst also providing a place for researchers to share information and collaborate.

Some of the main features are as follows. Users can upload resources, which can be viewed by other users. Users can also create posts to share their thoughts on the topic with other visitors of the application. The application also allows for visitors to view and search through papers published in regards to the field. All these functionalities allow people to interact and collaborate with each other.

# Sprint 1 Features

## Create Account

Graphical user interface, text, application

Description automatically generatedTo create an account, click on the ‘Get Started’ button in the center of the index page

Graphical user interface, application

Description automatically generatedYou’ll be redirected to the registration page

Enter your desired account details in the input boxes and ensure the details are valid

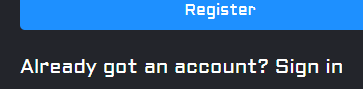
Enter a valid email address:

* Must include an ‘@’ symbol
* Must include a domain name
* Mustn’t include invalid characters

Then click the ‘Register’ button, the page will be refreshed  
Text

Description automatically generated  
And a message will appear if your registration was successful.

## Login

To access the login page  
  
Click on the ‘Already got an account’ prompt on the register page  
Graphical user interface, application

Description automatically generated

You’ll be redirected to the login page

Enter your email and password you created when registering and click the ‘Login button’

Graphical user interface, text, application

Description automatically generated  
After logging in, you’ll be redirected to the homepage

# Sprint 2 Features

No features completed in this sprint

# Sprint 3 Features

## Papers

### View Papers

To view papers click on the ‘Papers’ section on the Navigation Bar

Logo

Description automatically generated with medium confidence

You’ll be redirected to the ‘Papers’ page (Shown below)

Graphical user interface

Description automatically generated

On this page, you can view all the papers that have been uploaded to the website.

For each paper, you can view the Author (user that uploaded the paper), the description (description of the paper that user wrote), and the upload date (date and time the paper was uploaded).

You can also view the paper by clicking on the file name (in this View Paper column). The paper will be downloaded to your default download location.

Text

Description automatically generated with low confidence

You can view the file using your browser (or external software, such as Adobe Acrobat).

Graphical user interface, text, application

Description automatically generated

### Search Papers

On the ‘Papers’ page, there is a search bar, which allows you to search and filter the uploaded papers.



Using the drop-down menu on the left, you can specify how you want to search through the papers, e.g. you can search by the Author, or you can search by Upload Date, etc.

Graphical user interface, text, application, chat or text message

Description automatically generated

The middle section is where you enter your search query. So in the example below, we’re searching by Author with the name ‘Woo’.



When you’re satisfied with the query you’ve made, you can submit it using the ‘Search’ button on the right of the bar.

Graphical user interface

Description automatically generated with low confidence

After your query is submitted and processed, the table on the ‘Papers’ page only shows papers that match your query.

A picture containing background pattern

Description automatically generated

### Upload a Paper

To upload a paper click on the ‘Upload a Paper’ button on the ‘Papers’ page.

Graphical user interface, text, application, chat or text message

Description automatically generated

You’ll be redirected to the ‘Upload Paper’ page (Shown below)

Graphical user interface

Description automatically generated

On this page, you can enter information about the paper you want to upload.

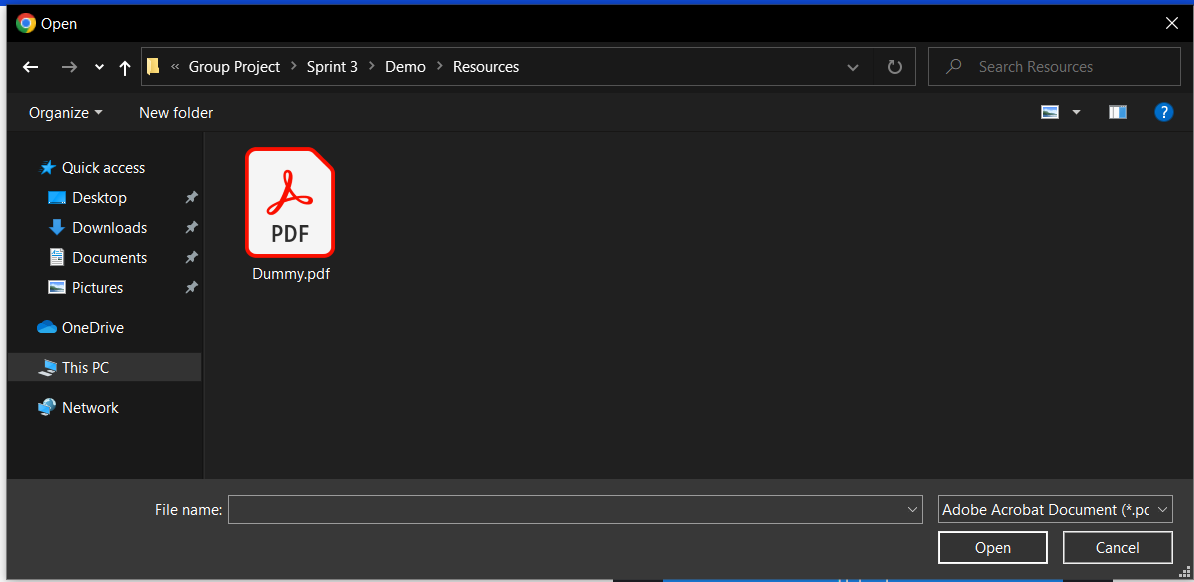
The ‘File Name’ represents the name that the file will be stored under once uploaded. ‘Description’ is a brief overview of the paper that you’re uploading.

To select the paper you want to upload, click the ‘Choose file button’

Text, logo

Description automatically generated

Once the button is clicked, your file explorer is opened and you’re able to select the paper. Note that you’re only allowed to upload files of ‘.pdf’ format, if you try uploading a file of the incorrect format, you’ll get an error.

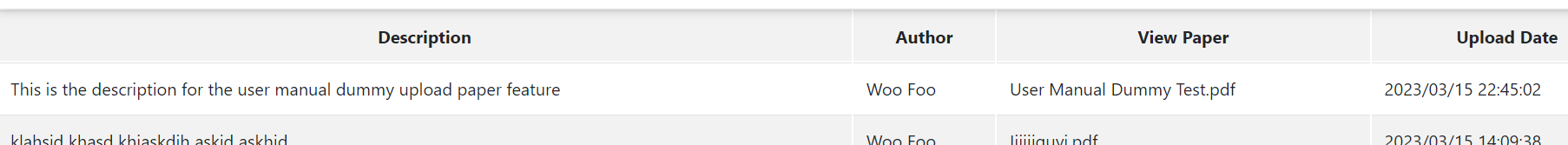


After filling in all the input fields and selecting the paper you want to upload, click the ‘Upload’ button to submit your paper.

Graphical user interface, application

Description automatically generated

Once uploaded, you’re redirected back to the ‘Papers’ page. The top-most row of the table represents the most recent paper upload, i.e. the paper you just uploaded.



## Feed

### View Feed

To view the feed click on the ‘Feed’ section on the Navigation Bar

Text

Description automatically generated

You’ll be redirected to the ‘Papers’ page (Shown below)

Graphical user interface, text, application, email

Description automatically generated

On this page, you can view all posts that have been created, and information about recent paper uploads.

For each post, the left-most text in the header represents the Title of the post, the middle text in the header is the Author’s name, and the right-most text is the post date (the date that this post was made).  
The content of the post is displayed under the header.

A screenshot of a computer

Description automatically generated with low confidence

### Create a Post

To create a post click on the ‘Create a Post’ button on the ‘Feed’ page.

Graphical user interface, text, application, email

Description automatically generated

You’ll be redirected to the ‘Create a Post’ page (Shown below)

Graphical user interface, application

Description automatically generated

On this page, you can enter information about the post you want to create.

The ‘Title’ represents the title of the post, and the ‘Text’ represents the content of the post.

After filling in all the input fields, click the ‘Post’ button to submit your post.

Text

Description automatically generated

Once posted, you’re redirected back to the ‘Feed’ page. The top-most row of the feed represents the most recent post, i.e. the post you just created.

Graphical user interface, text, application

Description automatically generated

### Profile:

### View About Me!

In order to view your About Me! navigate your mouse to the top right of whatever webpage you are on, and hover over the circle labeled profile, a dropdown will appear displaying three options, click on “Profile” (Circled in red below).

### Graphical user interface, text, application Description automatically generated

You will be redirected towards your own profile “About Me!” page.

Graphical user interface, text, application, chat or text message

Description automatically generated

### View Comments

In order to view your profile comments, navigate to profile “About Me!” page, and click on the button labelled “Comments” (Circled in red below).

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, chat or text message

Description automatically generatedYour comments will appear on the left hand side (Circled in red and green below).

### Create Comments

In order to create a comment on page, navigate to the “Comments” page as shown above

Once you have done this locate the “Create Comment” panel (Circled in red below).

Graphical user interface, text, application

Description automatically generated

Now type your comment in the text input box and click the button opposite labelled “Comment”, you will then be redirected to the about me page and can view the comment by clicking on the “Comments” button in the center of your screen.

### View Posts

In order to view the posts on your profile, you should navigate to the button labelled “Posts” (Circled in red below) in the center of your screen from any profile webpage e.g. About me or Comments.

Graphical user interface, application

Description automatically generatedGraphical user interface, text, application

Description automatically generatedYou will then see all posts this profile has made(As shown below).

### Edit Information

In order to edit your information navigate your mouse to the top right of whatever webpage you are on, and hover over the circle labeled profile, a dropdown will appear displaying three options, click on “Edit Information” (Circled in red below).

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, application

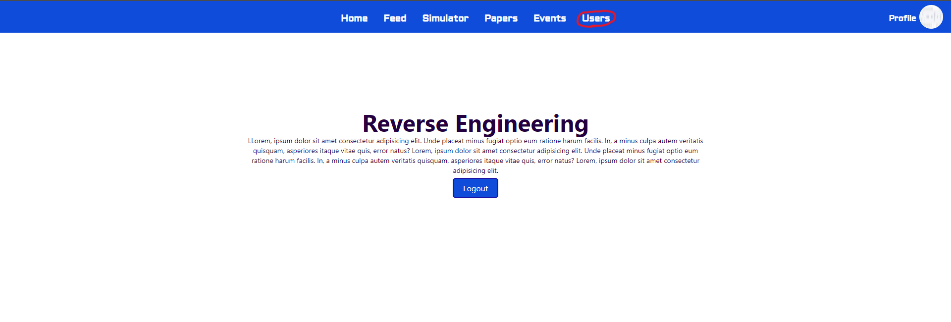
Description automatically generatedYou will be shown a page with multiple input text boxes with relevant labels as to their purpose, for example if you want to change your age navigate to the box labelled “Enter Age” enter your age and click “Change Age”.



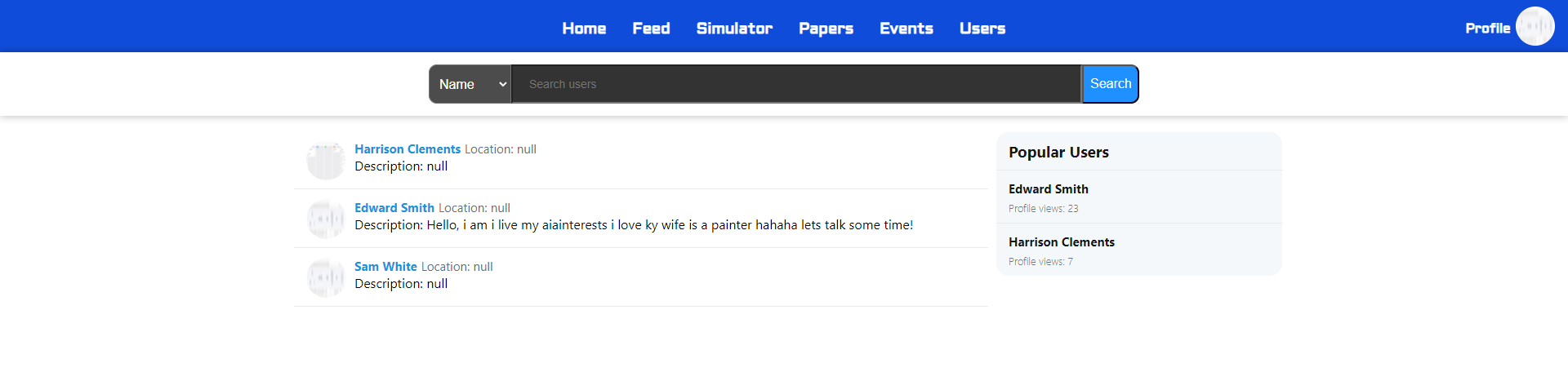
### View Users



In order to see users you should navigate to the “Users” tab in the tab navigation bar.



This will display all users.

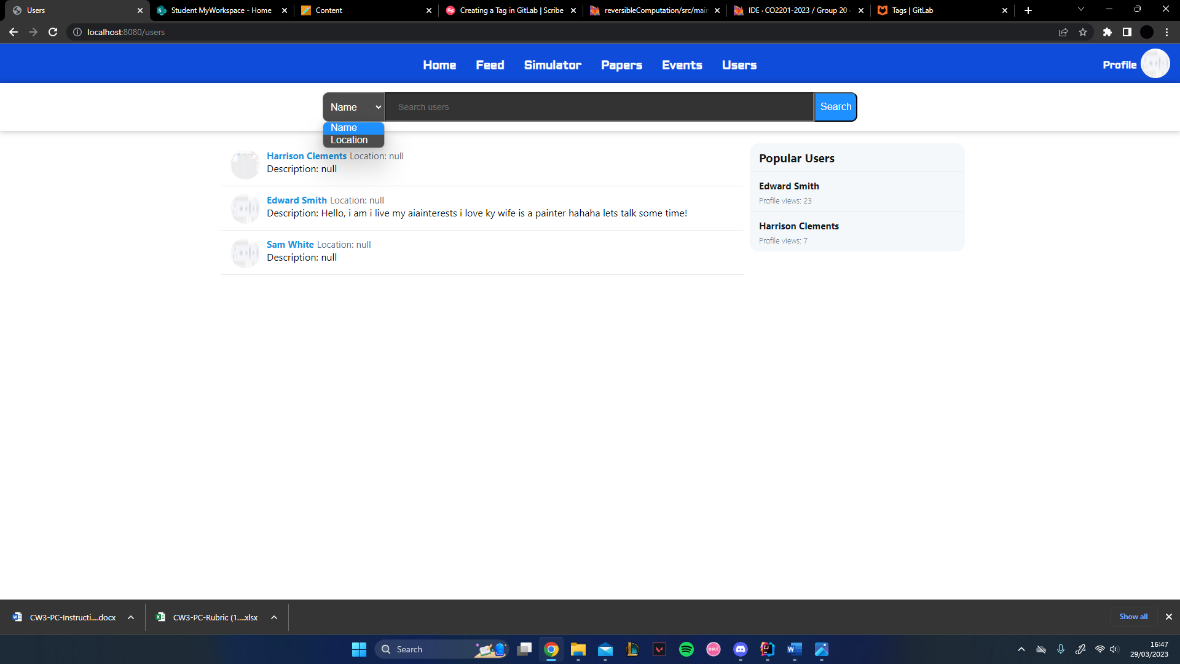


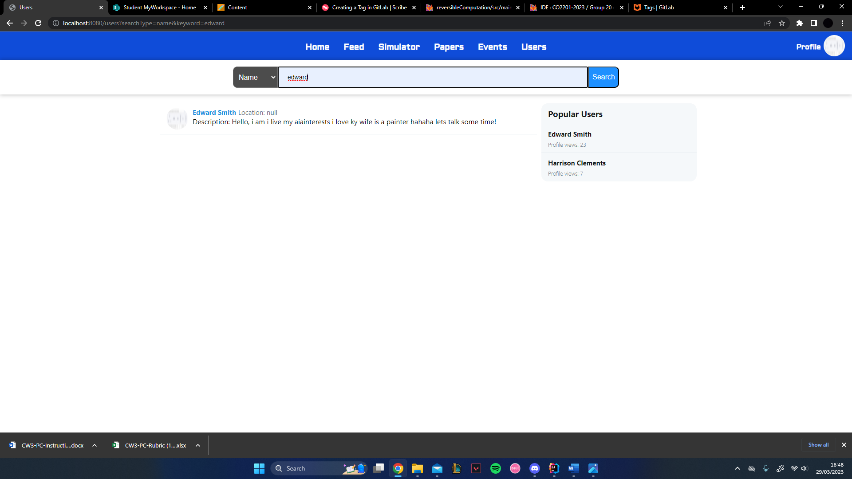
### Search For User

Locate the search bar.

### 

Select what attribute you’d like to search for, enter a key word and results will appear below.





### View Event



In order to see your events you should navigate to the events tab in the tab navigation bar.

Graphical user interface, website, timeline

Description automatically generated

This will display all events scheduled.

A screenshot of a computer

Description automatically generated

### Search For Event

Locate the search bar.

### A screenshot of a computer Description automatically generated

Select what attribute you’d like to search for, enter a key word and results will appear below.

Graphical user interface, application

Description automatically generatedA screenshot of a computer

Description automatically generated

### Create Event

To create an event, click on the “Create an Event” button.

Graphical user interface, application

Description automatically generated

Now enter the Title of event, description, select a date in the future, time, duration, and location, all respective of the label in each text box, then click create.

Graphical user interface, application

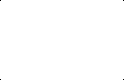
Description automatically generated

Simulator

A screenshot of a computer

Description automatically generated with low confidenceA screenshot of a computer

Description automatically generated with low confidenceHere is the simulator that aims to demonstrate reversable computation.



A screenshot of a computer

Description automatically generated with low confidenceThe box on the top right indicates the current state of the 3 variables you will be working with during the code execution (x, y and z).



Using the 4 buttons you can:

* **Add Line** [adds an extra line of code to the main box for variable assignment]
* **Conditional** [ads and if else conditional to the program]
* **Next** [executes the next line of code]
* **Previous** [goes back a line of code and updates current memory state using stacks (see bottom left box)]