



School of Computer Science & Information Technology

CSIT-22-S4-24 - Automatic Project Assignment

User Manual

Group No.: FYP-22-S4-32

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1. Introduction

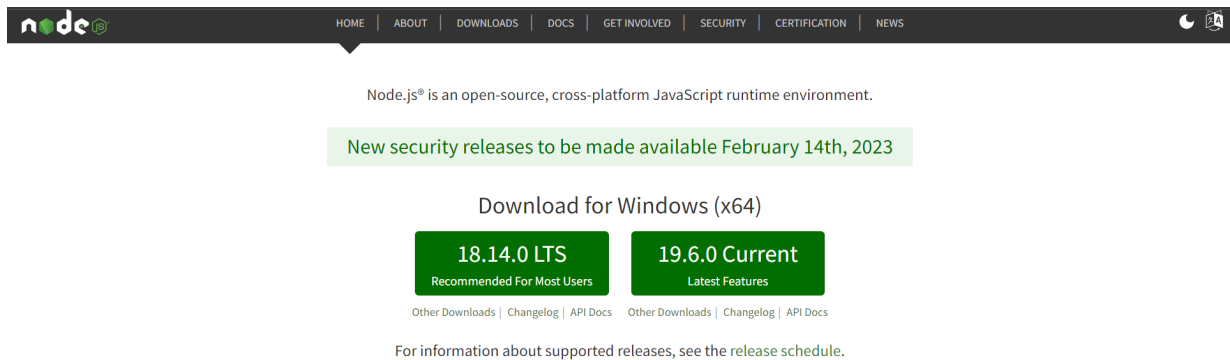
This document serves as a guide for users on how to navigate through the automation project assignment platform. It will allow different users to identify the functionalities and functions catered for them. They will also be able to understand the processes of the functions.

2. Installation and Configuration

Installation of the application in the upcoming steps is only for running the application through a localhost. For users that would like to access the web application through the live server, please use this link: <https://autoassignment-fyp22s432.netlify.app/login>

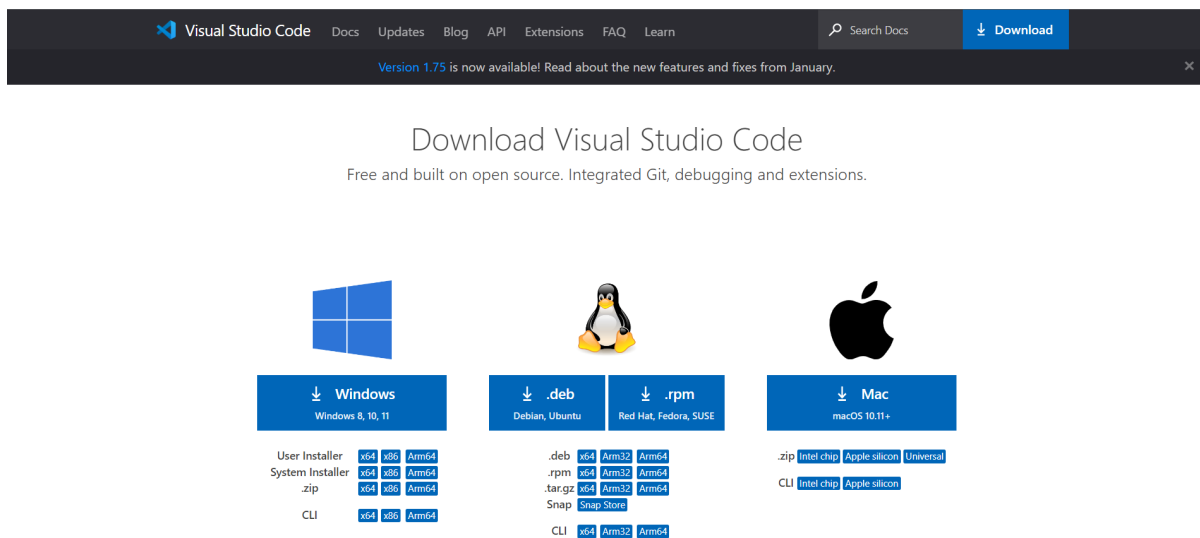
1. Installation of [Node.js](#)

Head over to the Node.js link and download the LTS version. Follow the installation instructions to download Node.js to your drive.



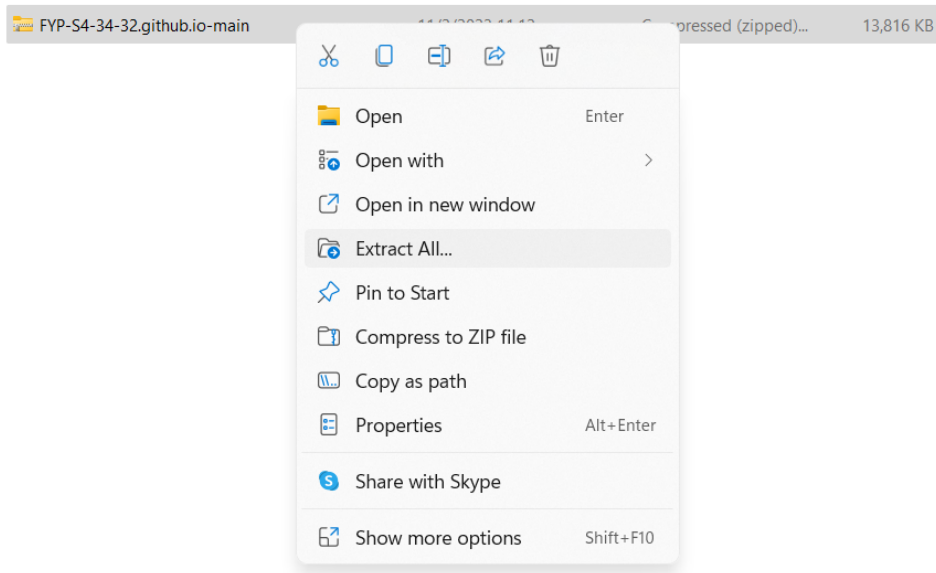
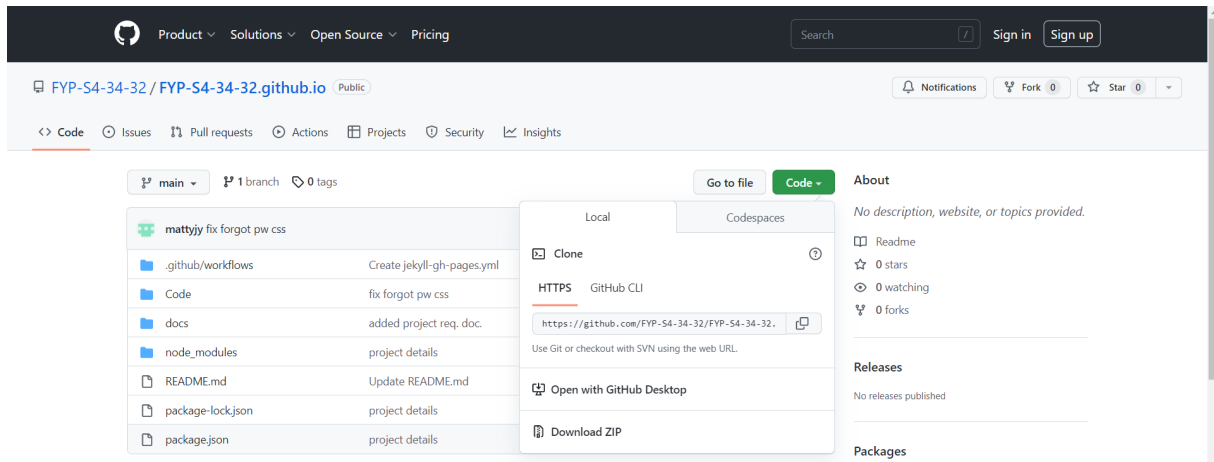
2. Installation of [Visual Studio Code](#)

Head over to the Visual Studio Code link and download the Windows version. Follow the installation instructions to download Visual Studio Code in your drive.



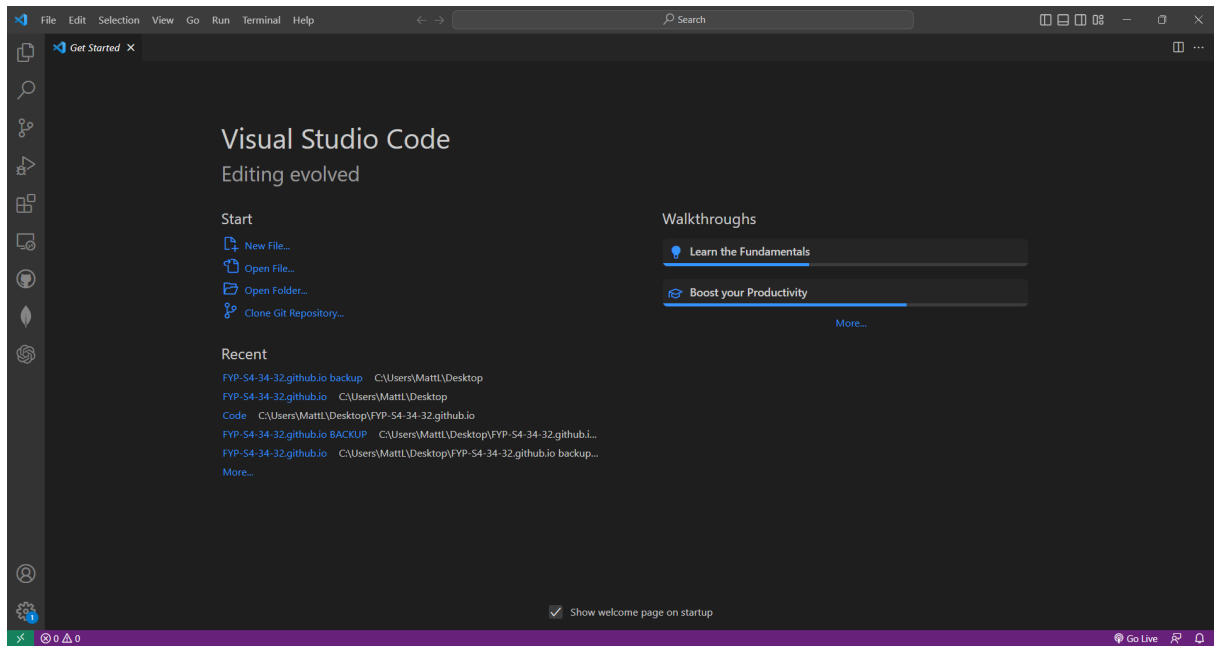
3. Download the [Source Code ZIP File - Frontend File](#) and [Source Code ZIP File - Backend File](#)

Access the Source Code ZIP File through the GitHub links above and click on the 'Code' button followed by 'Download ZIP'. Unzip/Extract both folders into your drive.

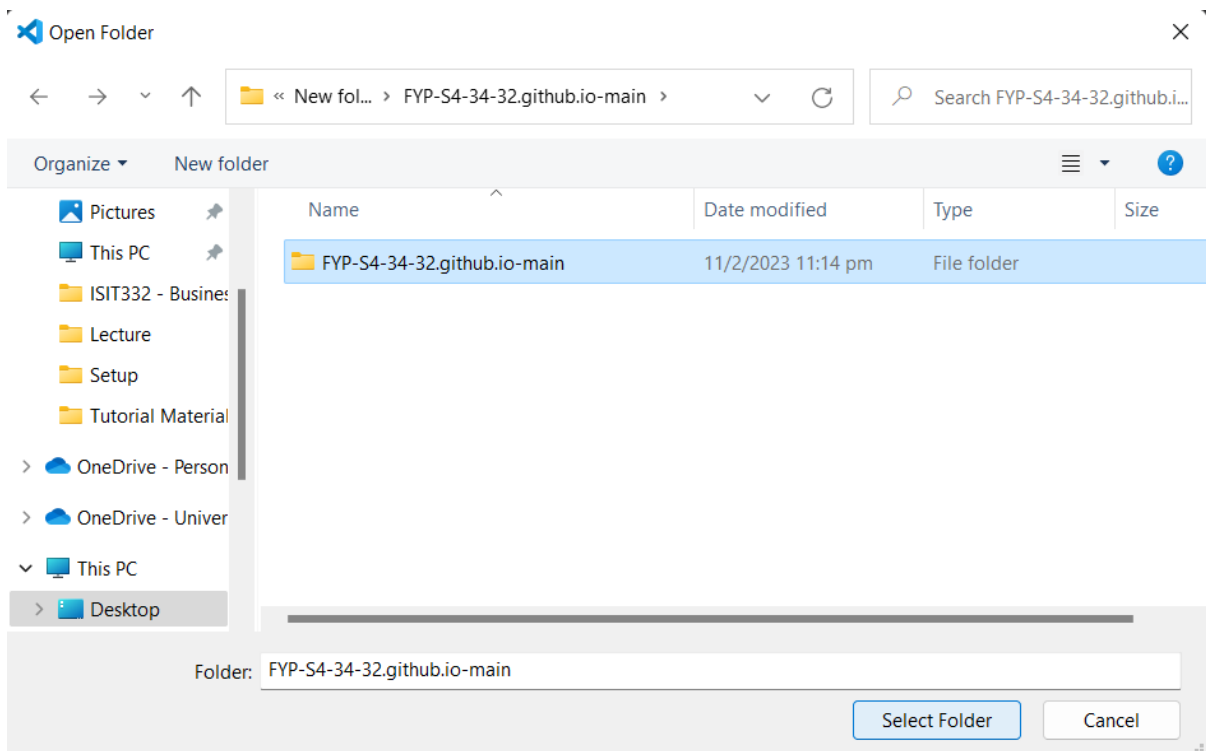


4. Setting up on Visual Studio Code

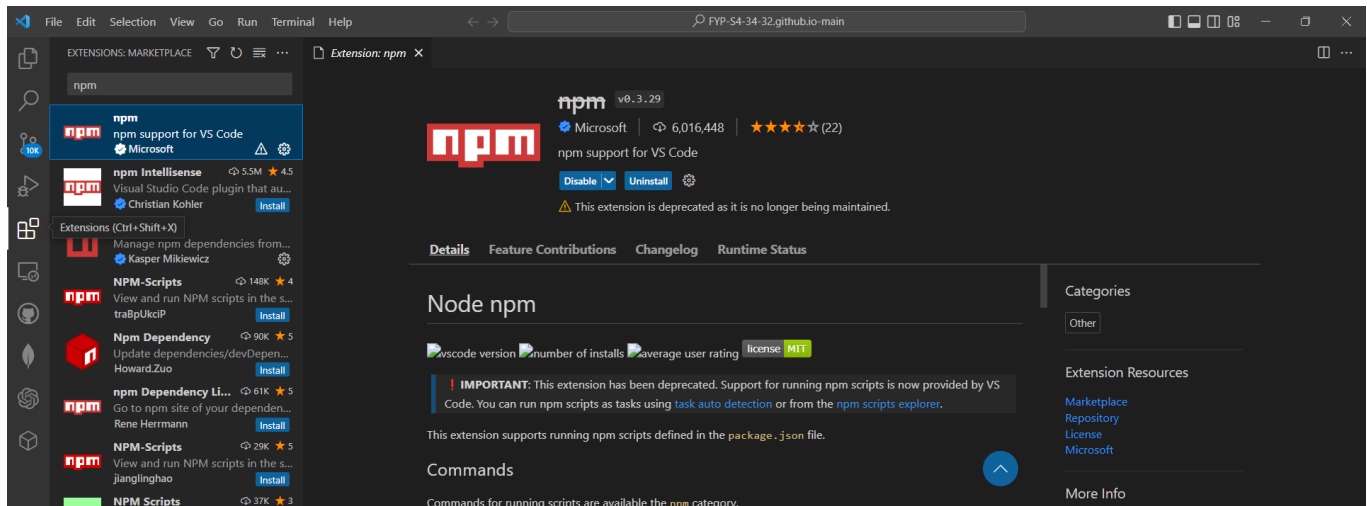
1. Start up Visual Studio Code and click on 'Open Folder'



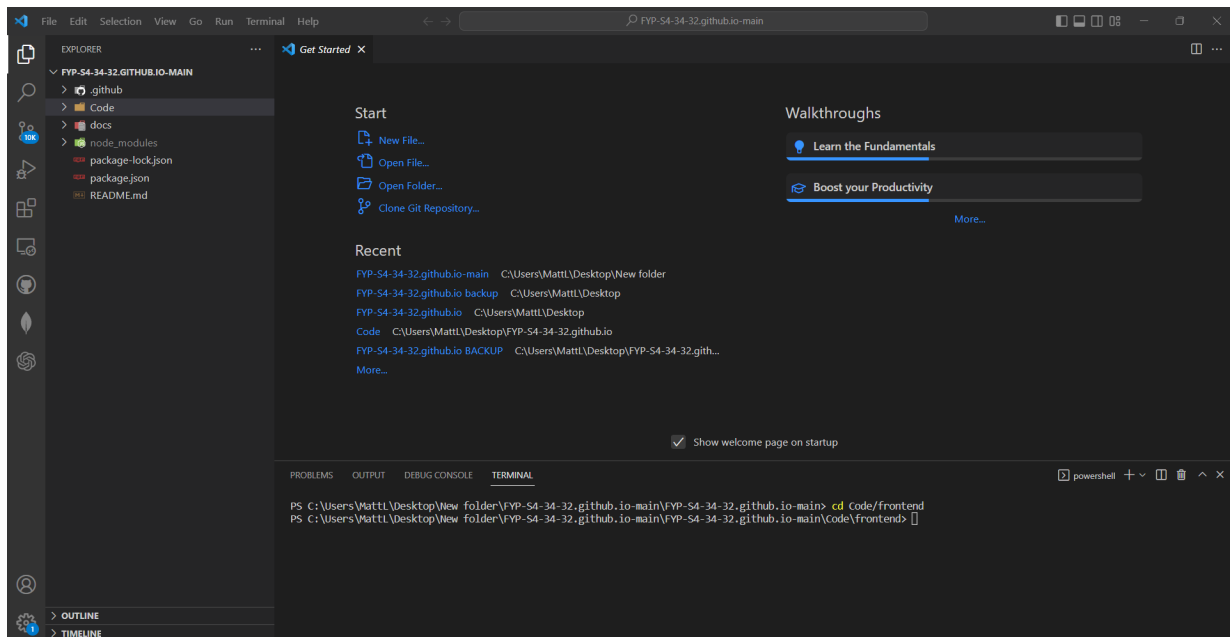
2. Click on the folder FYP-S4-34-32.github.io-main folder and click 'Select Folder' to open the folder on Visual Studio Code.



3. Click on the extensions icon and search 'npm'. You can choose either install npm or NPM



4. Press **Ctrl + ~** to open the terminal for the frontend folder and backend folder



5. Install these dependencies on the frontend folder

- npm/NPM install
- npm/NPM install react-router-dom
- npm/NPM install date-fns
- npm/NPM install nodemailer
- npm/NPM install react-chartjs-2

6. Press Ctrl+Shift+` to open a new terminal and type `cd Code/backend`.

Install these dependencies on the backend folder

- `npm/NPM install`
- `npm/NPM install express`
- `npm/NPM install dotenv`
- `npm/NPM install mongoose`
- `npm/NPM install bcrypt`
- `npm/NPM install validator`
- `npm/NPM install jsonwebtoken`
- `npm/NPM install -g nodemon`

5. Running the localhost web application

In the backend terminal, type `npm run dev`



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
PS C:\Users\MattL\Desktop\FYP-22-S4-32.github.io\Code\backend> npm run dev
> backend@1.0.0 dev
> nodemon server.js

[nodemon] 2.0.20
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting 'node server.js'
Connected to MongoDB and Listening on port 4000
```

In the frontend terminal, type `npm start`



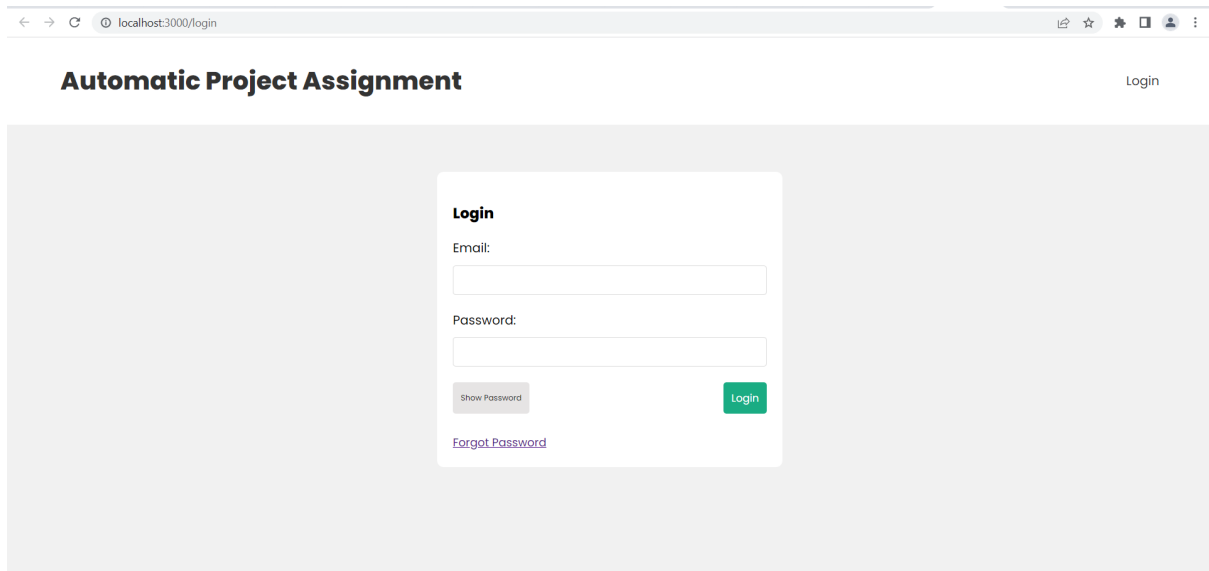
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
You can now view frontend in the browser.
Compiled successfully!
You can now view frontend in the browser.

Local:      http://localhost:3000
On Your Network: http://192.168.56.1:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

This should bring you to the starting page of the web application

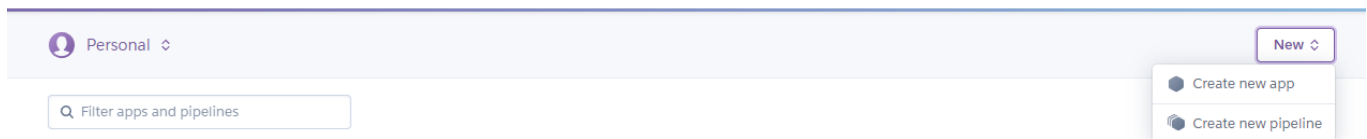


The screenshot shows a web browser window with the address bar displaying 'localhost:3000/login'. The page title is 'Automatic Project Assignment' and there is a 'Login' link in the top right corner. The main content area features a white login form with the following elements:

- Login** header
- Email:** label followed by a text input field.
- Password:** label followed by a text input field.
- Show Password** button (disabled).
- Login** button (green).
- [Forgot Password](#) link (purple).

6. Hosting backend server on Heroku.

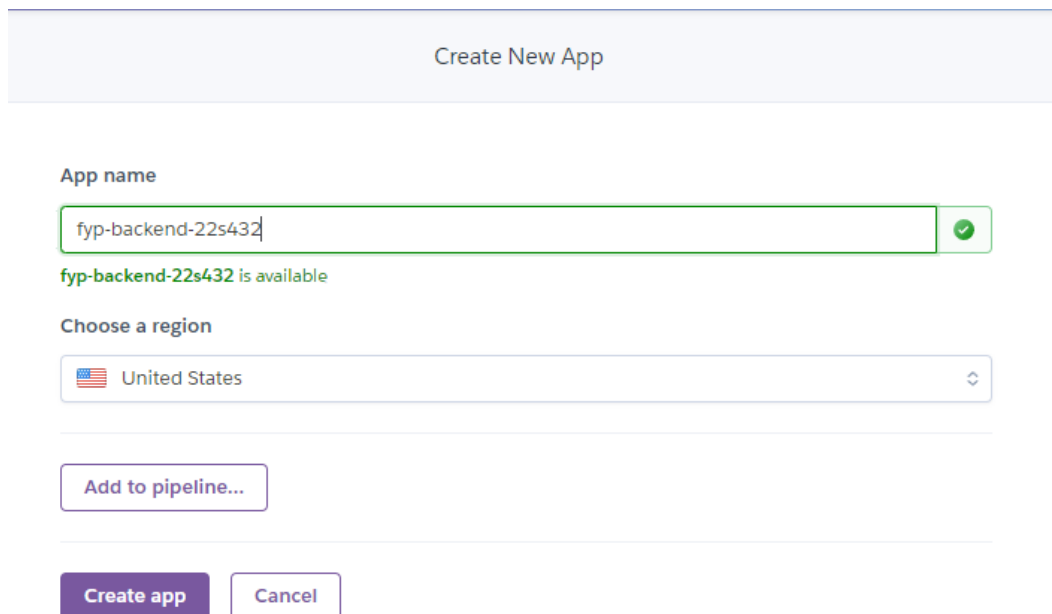
1. Create new app



The screenshot shows the Heroku dashboard with the 'Personal' user profile selected. A search bar labeled 'Filter apps and pipelines' is visible. The 'New' button in the top right corner has been clicked, revealing a dropdown menu with two options:

- Create new app
- Create new pipeline

2. Include the application name and select an appropriate region (we used United States for our project), and click “Create app”.





The screenshot shows the 'Create New App' form in Heroku. The form includes the following fields and buttons:


- Create New App** header.
- App name** section with a text input field containing 'fyp-backend-22s432' and a green checkmark icon. Below the input, a message states 'fyp-backend-22s432 is available'.
- Choose a region** section with a dropdown menu showing 'United States' and a US flag icon.
- Add to pipeline...** button.
- Create app** button (purple) and **Cancel** button (white with purple border).

3. Connect to backend source code through Github by selecting the appropriate repository.

Deployment method

 Heroku Git
Use Heroku CLI

 GitHub
Connect to GitHub




 Container Registry
Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code diffs and deploys.

Search for a repository to connect to

Missing a GitHub organization? [Ensure Heroku Dashboard has team access.](#)

 FYP-S4-34-32/FYP-S4-34-32.github.io	<input type="button" value="Connect"/>
 FYP-S4-34-32/FYP-S4-34-32.github.io-frontend	<input type="button" value="Connect"/>
 FYP-S4-34-32/FYP-S4-34-32.github.io-backend	<input type="button" value="Connect"/>

4. Deploy

Manual deploy

Deploy the current state of a branch to this app.

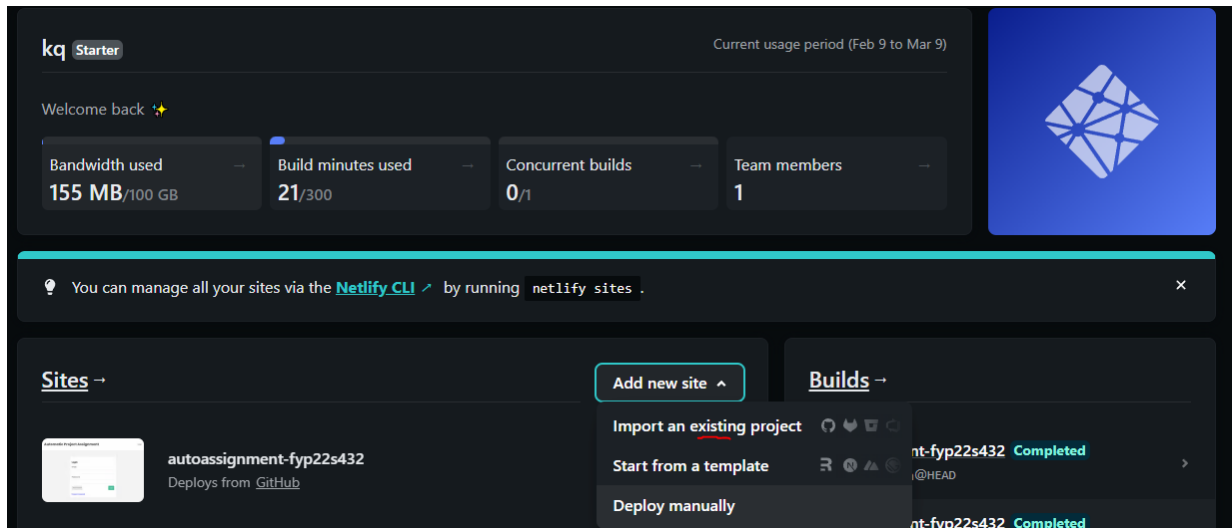
Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

7. Hosting frontend server on Netlify.

1. Add a new site by importing an existing project from Github repository

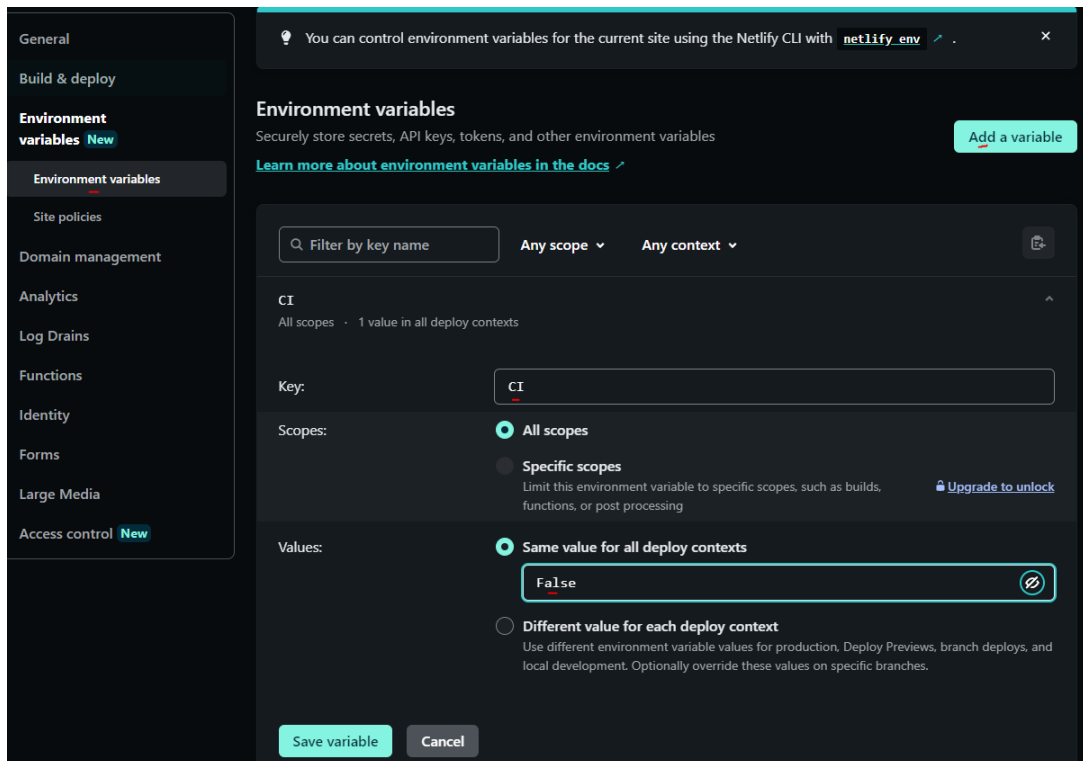


The screenshot shows the Netlify dashboard for a user named 'kq'. At the top, it displays usage statistics: Bandwidth used (155 MB/100 GB), Build minutes used (21/300), Concurrent builds (0/1), and Team members (1). A notification banner states: 'You can manage all your sites via the [Netlify CLI](#) by running `netlify sites`.' Below this, the 'Sites' section shows a site named 'autoassignment-fyp22s432' which 'Deploys from GitHub'. An 'Add new site' button is visible, with a dropdown menu showing options: 'Import an existing project', 'Start from a template', and 'Deploy manually'. The 'Builds' section shows a recent build for 'nt-fyp22s432' with a status of 'Completed'.

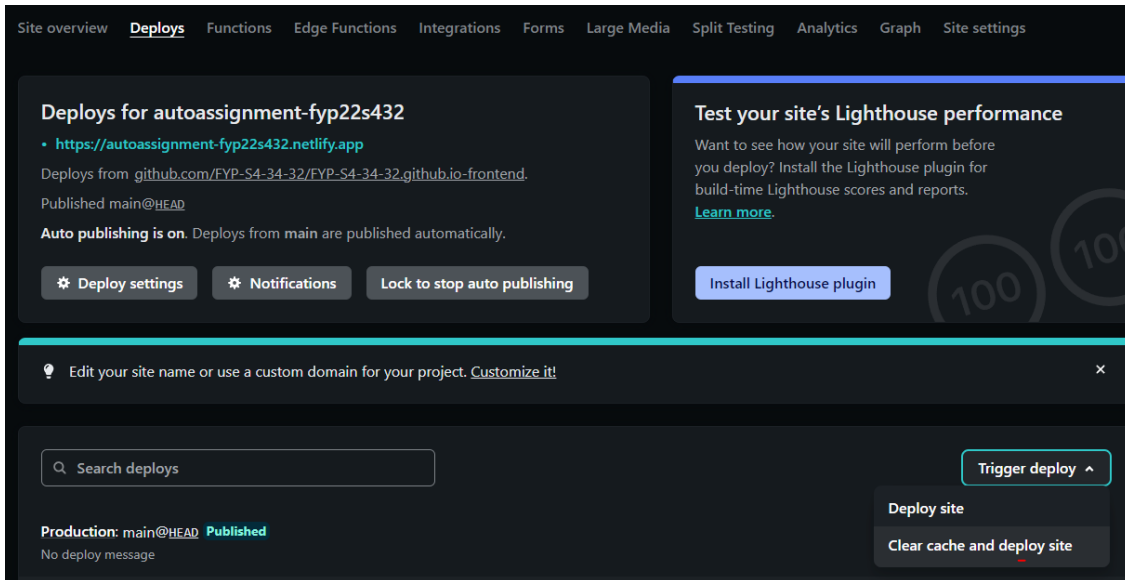
2. Select the appropriate repository and click on Deploy site at the bottom of the page while leaving the other settings as default.



3. Head over to the Site settings and include an environment variable.



4. Trigger site deployment again after adding the environment variable.



5. Open the web application using the link provided by Netlify.

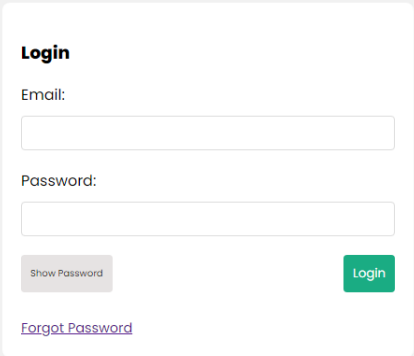
8. Open the web application using the [link](#) provided by Netlify.

3. Main Landing Page - Login

The login page will be the main landing page all the users will see once they access the platform. Every user will be required to login before they have access to any features in the platform. Each user has to fill in their email and password, and click on the login button to verify their login information. The platform will check whether all the fields have been filled, and whether the information provided is correct before authenticating the user into the platform.

Automatic Project Assignment

Login

A login form titled "Login" is centered on a light gray background. The form contains two input fields: "Email:" and "Password:". Below the "Password:" field is a "Show Password" button. To the right of the "Password:" field is a green "Login" button. Below the "Email:" field is a link labeled "Forgot Password".

Login

Email:

Password:

Show Password

Login

[Forgot Password](#)

When the platform have confirmed that the fields provided by the user is currently an existing user of the platform, the user will be redirected to their corresponding landing page based on their user type:

- If the user is a Super Admin, they will be redirected to the Super Admin landing page
- If the user is a Project Admin, they will be redirected to the Project Admin landing page
- If the user is an Employee, they will be redirected to the Employee landing page

4. Logout

When users want to log out of the platform, they can simply click on the Logout button found on the top right of the screen.

4.1 Super Admin's View

Below would be the navigation bar of the Super Admin's View with the Logout button on the top right of the screen.

Automatic Project Assignment

Create Organisation Create Account All Users Profile [Log out](#)

4.2 Project Admin's View

Below would be the navigation bar of the Project Admin's View with the Logout button on the top right of the screen.

Automatic Project Assignment

Assignment Create Project Organisation Skills All Users Create Account Profile [Log out](#)

4.3 Employee's View

Below would be the navigation bar of the Employee's View with the Logout button on the top right of the screen.

Automatic Project Assignment

Project Listings Select Preference Assigned Projects Profile [Log out](#)

Once successfully logged out, they will be redirected to the main landing page which is the login page.

5. Super Admin - Main Page

When a user logs in as a super admin, they will be redirected to the super admin landing page where they can view a listing of organisations' information in the platform. On the main page, they will be able to see the Organisation Listings created by them or other super admin.

The screenshot shows the 'Automatic Project Assignment' dashboard. At the top right, there are links: 'Create Organisation', 'Create Account', 'All Users', 'Profile', and a 'Log out' button. The main section is titled 'Organisation Listings' and contains three cards:

- ABC**
Organisation Code: 1234
Created about 1 month ago by Mr Boss
- Orange Business Services**
Organisation Code: OBS
Created about 1 month ago by Mr Boss
- Microsoft Singapore**
Organisation Code: MSFT
Created about 1 month ago by Mr Boss

By clicking on any of the Organisation Listings, the super admin will be able to see the selected organisation's details, as well as all the users in it. They will also be able to delete the organisation if it is deemed to be unused in the future.

The screenshot shows the 'Automatic Project Assignment' dashboard with the 'Microsoft Singapore' organisation selected. The top navigation bar is the same. The main content area shows the details for 'Microsoft Singapore':

- Created about 1 month ago by Mr Boss
- Project Description:**
Microsoft Corporation, leading developer of personal-computer software systems and applications. The company also publishes books and multimedia titles, produces its own line of hybrid tablet computers, offers e-mail services, and sells electronic game systems and computer peripherals (input/output devices).
- Delete** button
- Create Employee/Project Admin account for Microsoft Singapore** button

Below this, there is a sidebar on the left with links: 'All Users', 'Project Admins', 'Employees', and 'Manage Users'. The main section is titled 'Organisation Users' and contains a 'Search User' input field. Below the search field, a user card for 'Patrick' is shown, with the organisation 'MSFT'.

5.1 Create Organisation

The Super Admin that is logged in will be able to create a new Organisation after clicking on “Create Organisation” from the navigation tab. It can be created simply by filling in the form with the new Organisation Name, Organisation Code as well as the description of the new Organisation.

Automatic Project Assignment

Create Organisation Create Account All Users Profile [Log out](#)

Add a new Organisation Listing

Organisation Name:

Organisation Code:

Organisation Description:

[Add New Organisation Listing](#)

Once successfully created, the super admin will be redirected back to the main page where they will see the new organisation in the listing.

5.2 Create New Account

The Super Admin that is logged in will be able to create a new Account to be used in the platform after clicking on “Create Account” on the navigation tab. A User will be required to have their account created in order to access the platform’s features and functionalities. In order to create a new user, the super admin will need to select the organisation the new account will be created under, and fill in the fields required. They will also need to select the role of this new account in order to grant it the right access of features.

Automatic Project Assignment

[Create Organisation](#) [Create Account](#) [All Users](#) [Profile](#) [Log out](#)

The screenshot shows a web application interface with a navigation bar at the top. The navigation bar contains the text "Automatic Project Assignment" on the left and a series of links on the right: "Create Organisation", "Create Account", "All Users", "Profile", and "Log out". The "Log out" link is highlighted with a green border. Below the navigation bar is a large light gray area containing a white form titled "Account Creation". The form has the following fields: "Name:" with a text input field, "Email:" with a text input field, "Organisation:" with a dropdown menu showing "Please choose an organisation", "Password:" with a text input field, "Confirm Password:" with a text input field, and "Role:" with a dropdown menu showing "Please choose one". At the bottom of the form is a green "Sign up" button.

Once the account is successfully created, an account created successfully message would be displayed at the bottom of the form.

Creating Super Admins

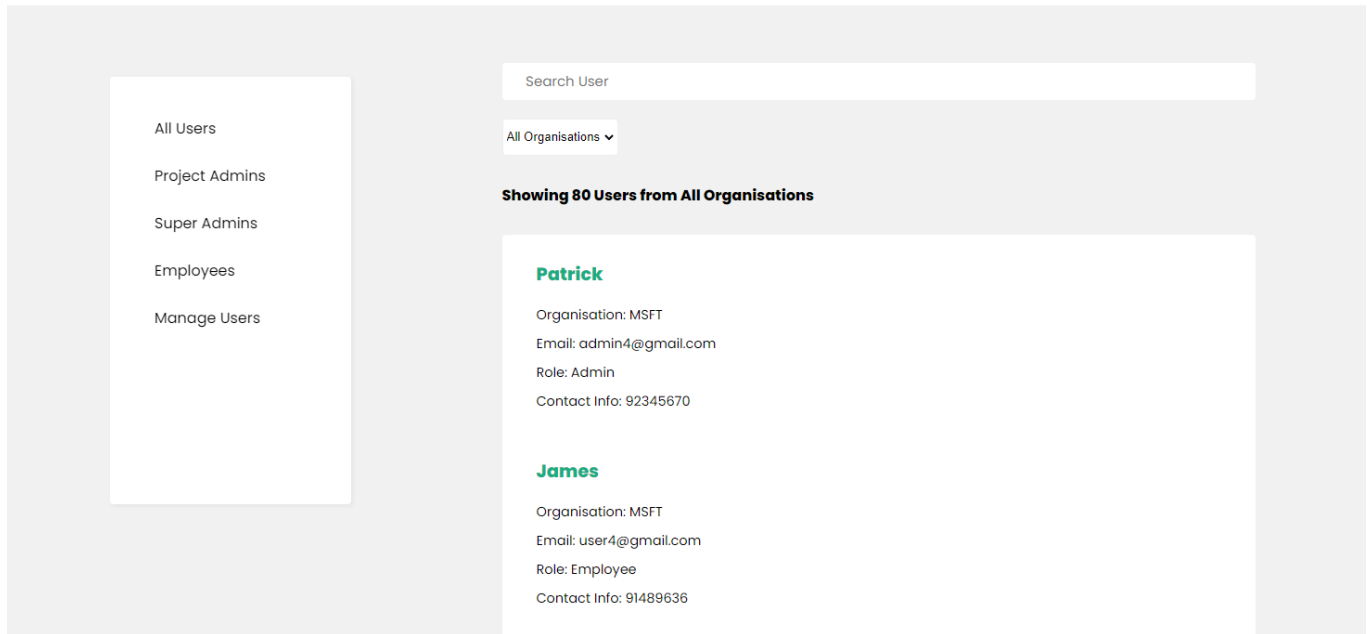
In order to create another Super Admin, the currently logged in Super Admin simply selects the role as “Super Admin” and the organisation field will be automatically filled as Undefined. This is due to Super Admin role accounts not belonging to any organisation.

5.3 All Users

The Super Admin that is logged in will be able to see a list of All Users in the platform after clicking on “All Users” from the navigation bar. The users can be filtered by their organisation as well as by the role they belong to. Users can be searched using the search bar as well.

Automatic Project Assignment

Create Organisation Create Account All Users Profile [Log out](#)



View User Details

By clicking on a selected user, the Super Admin will be able to see the User’s Details and the organisation they belonged in, as well as be able to edit their role and contact info.

Automatic Project Assignment

[Create Organisation](#) [Create Account](#) [All Users](#) [Profile](#) [Log out](#)[Back to Users](#)

User Details

Organisation

MSFT

Name

Patrick

Name

admin4@gmail.com

Role

Admin ▾

Edit

Contact Info

92345670

Edit

Manage Users

The Super Admin will be able to delete users by clicking on “Manage Users” on the side navigation bar. Upon clicking it, there will be a checkbox icon and a dustbin icon appearing for each user. Users can be deleted by clicking on the dustbin icon. They can also be deleted by selecting a few of them, and clicking on the “Delete Users” button.

Automatic Project Assignment

[Create Organisation](#) [Create Account](#) [All Users](#) [Profile](#) [Log out](#)

[All Users](#)
[Project Admins](#)
[Super Admins](#)
[Employees](#)
[Manage Users](#)

Search User

All Organisations ▼

Manage Users

Delete Users

Patrick

☐

Organisation: MSFT
Role: Super Admin

James

☐

Organisation: MSFT
Role: Employee

Benjamin

☐

Organisation: OBS
Role: Admin

Alice

☐

Organisation: MSFT
Role: Employee

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5.4 Profile

The logged-in user will be able to see their User Information after clicking on “Profile” from the navigation bar. They will be able to edit their Contact Info which can be viewed by other users in the platform belonging to the same organisation.

Automatic Project Assignment

[Create Organisation](#)
[Create Account](#)
[All Users](#)
[Profile](#)
[Log out](#)

User Information

Change Password

User Information

Full Name

Mr Boss

Email

superAdmin1@gmail.com

Role

Super Admin

Contact Info

12345678 [Edit](#)

By clicking on “Change Password” from the side navigation bar, the user will be able to change their password by filling in their Current Password, New Password and Confirm New Password.

Automatic Project Assignment

[Create Organisation](#)
[Create Account](#)
[All Users](#)
[Profile](#)
[Log out](#)

User Information

Change Password

Change Password

Current Password

New Password

Confirm New Password

[Cancel](#)
[Submit](#)

6. Project Admin - Main Page

When a user logs in as a project admin, they will be redirected to the project admin landing page where they can view their organisation's information. On the main page, they will be able to see the Project Listings available in their organisation created by them or other project admins in the same organisation.

Automatic Project Assignment

[Assignment](#)
[Create Project](#)
[Organisation Skills](#)
[All Users](#)
[Create Account](#)
[Profile](#)
[Log out](#)

Project Listings

Aircon Services Application

Skills needed: GraphQL, MongoDB, React, React Native
Number of People Needed: 3
 Created 5 days ago by Patrick

Business Process Modeling Tool

Skills needed: GraphQL, MongoDB, React, Ruby on Rails, React Native
Number of People Needed: 6
 Created 5 days ago by Patrick

Gym and Wellness App

Skills needed: MongoDB, Ruby on Rails, GraphQL, PHP, React Native
Number of People Needed: 6
 Created 5 days ago by Patrick

Dental Clinic System

Skills needed: MongoDB, Ruby on Rails, GraphQL, C#
Number of People Needed: 3
 Created 5 days ago by Patrick

6.1 Assignment

The Project Admin that is logged in will be able to manage Project Assignments of their organisation in the platform after clicking on “Assignment” on the navigation tab. The Project Admin will be able to create a new assignment via the form on the right side of the page to begin the project assignment process. After a new Assignment has been created, the admin will be required to click on the assignment to further edit the details of the assignment.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#) [Log out](#)

Project Assignment

MSFT 3

Projects: 10
Employees: 30
Threshold: 1
Start Date: 31/01/2023
End Date: 02/03/2023
Created by: Patrick 16 days ago

testingerror

Projects: 3
Employees: 1
Threshold: 2
Start Date: 08/02/2023
End Date: 09/02/2023
Created by: Patrick 4 days ago

demo

Projects: 3
Employees: 1
Threshold: 2
Start Date: 10/02/2023
End Date: 27/03/2023
Created by: Patrick 5 days ago

Add a New Assignment

Assignment Title:

Start Date:

End Date:

Threshold:

[Add Assignment](#)

After selecting the assignment, the admin will be able to see the assignment details such as the projects and employees involved in this assignment. On this page, the admin will be able to process the automatic assignment by clicking on “Process Automatic Assignment”.

Automatic Project Assignment

[Assignment](#)
[Create Project](#)
[Organisation Skills](#)
[All Users](#)
[Create Account](#)
[Profile](#)
[Log out](#)
[Assignment Details](#)[Projects](#)[Employees](#)[View Statistics](#)**MSFT 3**[Process Automatic Assignment](#)

Status: Active

Created 16 days ago by Patrick

Projects in this assignment:

- Business Process Modeling Tool
- Facebook Live E-Commerce Platform
- Private Clinic App
- Gym and Wellness App
- Dental Clinic System
- Who is a Twitter hateful user?
- Water Supply Management
- Warehouse Management System
- Gaming with Bare Hands via Machine Learning Approach
- Counting Maize Tassels in the Wild using Deep Neural Network

Employees in this assignment by email:

- msft21 - msft21@gmail.com
- msft22 - msft22@gmail.com
- msft23 - msft23@gmail.com
- msft24 - msft24@gmail.com
- msft25 - msft25@gmail.com

By clicking on “Projects”, the admin will be able to edit the project listings available for selection for the assignment process. The projects selected will be able to be seen by Employees and let them select their preferences according to them. The Project admin will be able to add or delete the projects from the assignment after clicking on the “Edit Projects” button.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)[Log out](#)[Assignment Details](#)[Projects](#)[Employees](#)[View Statistics](#)

Current List of Projects

- Business Process Modeling Tool
- Facebook Live E-Commerce Platform
- Private Clinic App
- Gym and Wellness App
- Dental Clinic System
- Who is a Twitter hateful user?
- Water Supply Management
- Warehouse Management System
- Gaming with Bare Hands via Machine Learning Approach
- Counting Maize Tassels in the Wild using Deep Neural Network

[Edit Projects](#)

By clicking on “Employees”, the admin can edit the employee list that will be involved in the assignment process. They will be able to add or delete the employees from the assignment after clicking on the “Edit Employees” button.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)[Log out](#)

Assignment Details

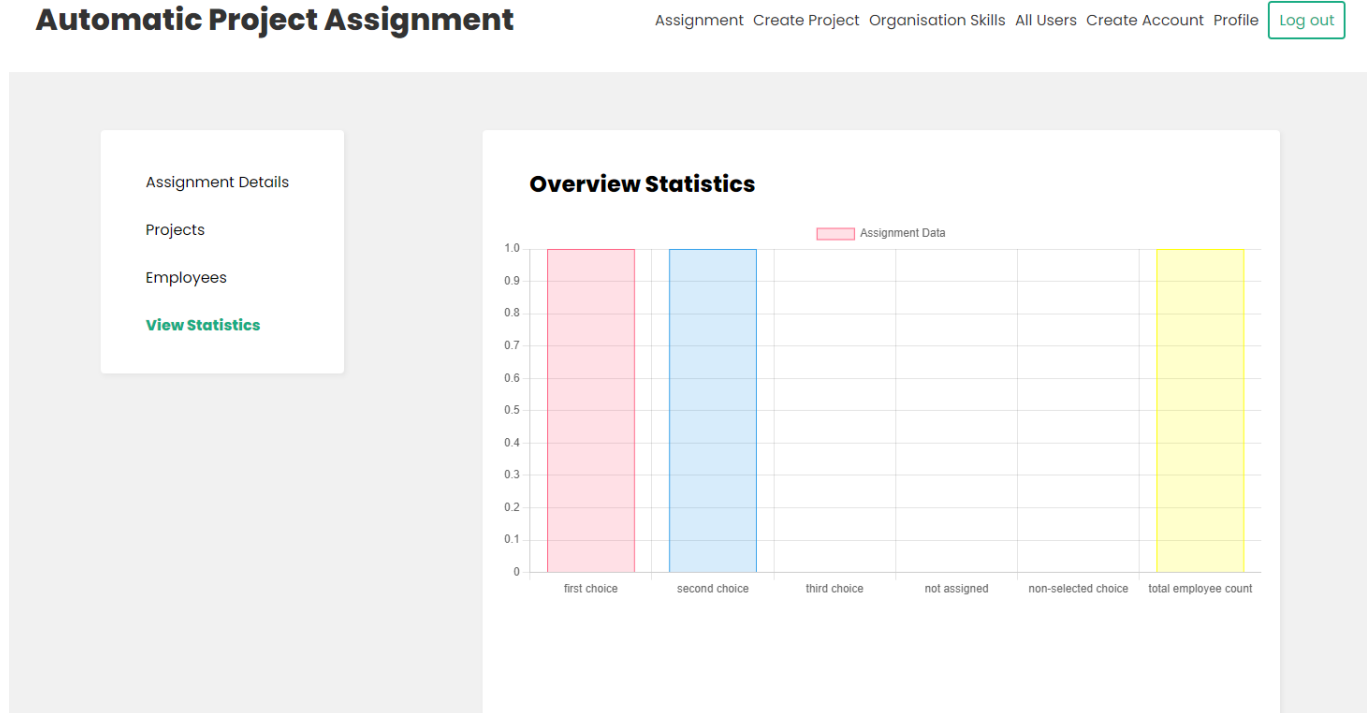
[Projects](#)[Employees](#)[View Statistics](#)

Current List of Employees

- msft21 - msft21@gmail.com
- msft22 - msft22@gmail.com
- msft23 - msft23@gmail.com
- msft24 - msft24@gmail.com
- msft25 - msft25@gmail.com
- msft26 - msft26@gmail.com
- msft27 - msft27@gmail.com
- msft28 - msft28@gmail.com
- msft29 - msft29@gmail.com
- msft30 - msft30@gmail.com
- msft31 - msft31@gmail.com
- msft32 - msft32@gmail.com
- msft33 - msft33@gmail.com
- msft34 - msft34@gmail.com
- msft35 - msft35@gmail.com
- msft36 - msft36@gmail.com
- msft37 - msft37@gmail.com
- msft38 - msft38@gmail.com
- msft39 - msft39@gmail.com
- msft40 - msft40@gmail.com
- msft41 - msft41@gmail.com
- msft42 - msft42@gmail.com
- msft43 - msft43@gmail.com
- msft44 - msft44@gmail.com
- msft45 - msft45@gmail.com
- msft46 - msft46@gmail.com
- msft47 - msft47@gmail.com
- msft48 - msft48@gmail.com
- msft49 - msft49@gmail.com
- msft50 - msft50@gmail.com

[Edit Employees](#)

By clicking on “View Statistics”, the admin will be able to view the statistics of the assignment after they have processed the automatic assignment.



6.2 Create Project

The Project Admin that is logged in will be able to create a new Project Listing for their organisation in the platform after clicking on “Create Project” on the navigation tab. The Project Admin will be able to create a new Project Listing after entering the details such as project title, project description, project requirements and the selection of skills required for the project and the number of people required. Once finalised, the admin will have to click on the “Add New Project Listing” button in order to create the new project. The system will check for any existing project with the same project title in the organisation before creating a new project.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)[Log out](#)

Add a new Project Listing

Project Title:

Project Description:

Project Requirements:

Skills Required:

[Add Skills](#)

Number of People Needed:

[Add New Project Listing](#)

6.3 Organisation Skills

The Project Admin that is logged in will be able to manage Organisation Skills for their organisation in the platform after clicking on “Organisation Skills” on the navigation tab. The admin will be able to see the skills available for the employees to choose and state their skill competency level. Admin will be able to add a new skill by entering the name of the skills and clicking on the “Add” button beside the text field. They will also be able to remove existing skills by clicking on the “Dustbin” icon beside the skill.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)
[Log out](#)

Organisation Skills

Java

MongoDB

PHP

React

Ruby on Rails

GraphQL

C++

C#

C

Swift

React Native

Add New Skill

Add a new skill

Add

6.4 All Users

The Project Admin that is logged in will be able to manage employees for their organisation in the platform after clicking on “All Users” on the navigation tab. Users can be searched using the search bar and their further details can be viewed by clicking into them.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)
[Log out](#)

Employees

Manage Employees

Search User

Showing 51 Employees from MSFT

msft1

Organisation: MSFT
 Email: msft1@gmail.com
 Role: Employee
 Contact Info:

msft2

Organisation: MSFT
 Email: msft2@gmail.com
 Role: Employee
 Contact Info: 81234567

msft3

Organisation: MSFT
 Email: msft3@gmail.com
 Role: Employee
 Contact Info:

View User Details

By clicking on a selected user, the Project Admin will be able to see the User’s Details, their Skill competency as well as Projects that they have been allocated. Project Admin will be able to help the employee edit their contact info as well.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)
[Log out](#)[Back to Users](#)

User Details

Organisation

MSFT

Skills

Java : Intermediate

Node.js : Beginner

PHP : Advanced

C# : Intermediate

Swift : Beginner

Name

msft1

Name

msft1@gmail.com

Role

Employee

Contact Info

[Edit](#)

Projects

Secure Folder for Android

A medication administration system

Managing Employees

Project Admins can also manage employees after clicking “Manage Employees” from the side bar. Employees can be deleted by clicking on the “Dustbin” icon beside their names or after selecting a few of them and clicking on “Delete Employees Button”

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)
[Log out](#)[Employees](#)[Manage Employees](#)

Search User

Manage Employees

[Delete Employees](#)

msft1



Organisation: MSFT

Email: msft1@gmail.com

Role: Employee

Contact Info:



msft2



Organisation: MSFT

Email: msft2@gmail.com

Role: Employee

Contact Info: 81234567



6.5 Create Account

The Project Admin that is logged in will be able to create accounts for their organisation after clicking on “Create Account” on the navigation tab. Admin can fill in the details of the new account and select the role of the new account either as an “Employee” or “Project Admin” via the dropdown list. For the organisation field, it would be auto generated by the platform. By clicking on the “Sign Up” button after the fields have been filled, the system will validate whether there is an existing user with the same email address before adding in the new account details.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)[Log out](#)

The screenshot shows a web application interface with a navigation bar at the top. The navigation bar includes the title "Automatic Project Assignment" and a series of links: "Assignment", "Create Project", "Organisation Skills", "All Users", "Create Account", "Profile", and a "Log out" button. The "Create Account" link is highlighted. Below the navigation bar, there is a light gray background area containing a white form titled "Account Creation". The form has the following fields: "Name:" with a text input field; "Email:" with a text input field; "Organisation:" with a dropdown menu showing "MSFT"; "Password:" with a text input field; "Confirm Password:" with a text input field; and "Role:" with a dropdown menu showing "Please choose one". At the bottom of the form is a green "Sign up" button.

6.6 Profile

The logged in user will be able to see their User Information after clicking on “Profile” from the navigation bar. They will be able to edit their Contact Info which can be viewed by other users in the platform belonging to the same organisation.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)[Log out](#)

The screenshot shows the 'User Information' page. On the left is a side navigation bar with three items: 'User Information' (selected), 'Organisation', and 'Change Password'. The main content area is titled 'User Information' and contains three sections: 'Full Name' with the value 'Janclyn Teo', 'Email' with the value 'admin3@gmail.com', and 'Role' with the value 'Admin'. Below these is a 'Contact Info' section with an 'Edit' button.

By clicking on “Organisation” from the side navigation bar, the user will be able to see the organisation information they belong to.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)[Log out](#)

The screenshot shows the 'Organisation Information' page. On the left is a side navigation bar with three items: 'User Information', 'Organisation' (selected and highlighted in green), and 'Change Password'. The main content area is titled 'Organisation Information' and displays 'Organisation Name: MSFT'.

By clicking on “Change Password” from the side navigation bar, the user will be able to change their password by filling in their Current Password, New Password and Confirm New Password.

Automatic Project Assignment

[Assignment](#) [Create Project](#) [Organisation Skills](#) [All Users](#) [Create Account](#) [Profile](#)

[Log out](#)

User Information

Organisation

Change Password

Change Password

Current Password

New Password

Confirm New Password

Cancel

Submit

7. Employee - Main Page

When a user logs in as an employee, they will be redirected to the employee landing page which is also the Project Listing Page, where they will be able to see the Project Listings available for the round of project assignment they are involved in. If they are not part of any allocation round or have already been allocated projects, it would be a blank project listing page.

Automatic Project Assignment

Project Listings Select Preference Assigned Projects Profile Log out

Project Listings

Gaming with Bare Hands via Machine Learning Approach

Skills needed: Ruby on Rails, React Native, GraphQL, Swift, C++
Created 6 days ago by Patrick

Counting Maize Tassels in the Wild using Deep Neural Network

Skills needed: MongoDB, Java, Ruby on Rails, GraphQL, React Native
Created 6 days ago by Patrick

Water Supply Management

Skills needed: MongoDB, PHP, Java, GraphQL, React
Created 6 days ago by Patrick

Warehouse Management System

Skills needed: MongoDB, Ruby on Rails, Swift, React Native, PHP
Created 6 days ago by Patrick

7.1 Select Preference

The Employee that is currently logged in will be able input or update their project preferences for the round of project allocation after clicking on “Select Preference” on the navigation tab. The projects available for users to choose their preferences via the dropdown list will be the ones available for the current round of project allocation the user is taking part in. The user will be able to see the preferences they have made previously at their profile page.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#)
[Log out](#)

Input/Update Project Preference

First Choice:

Please choose one

Second Choice:

Please choose one

Third Choice:

Please choose one

Submit Selection

7.2 Assigned Project

The Employee that is currently logged in will be able to view the projects they are assigned to after clicking on “Assigned Projects” on the navigation tab. They will be able to see the projects that they have been allocated to after the project assignment process has been completed.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#)
[Log out](#)

Assigned Projects

Secure Folder for Android

A medication administration system

7.3 Profile

The logged in user will be able to see their User Information after clicking on “Profile” from the navigation bar. They will be able to edit their Contact Info which can be viewed by other users in the platform belonging to the same organisation.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#) [Log out](#)

The screenshot shows the 'User Information' page. On the left is a side navigation bar with links: 'User Information', 'Organisation', 'Skills', 'Project Preferences', and 'Change Password'. The main content area is titled 'User Information' and contains three sections: 'Full Name' with the value 'msftl', 'Email' with the value 'msftl@gmail.com', and 'Role' with the value 'Employee'. Below these is a 'Contact Info' section with an 'Edit' button.

By clicking on “Organisation” from the side navigation bar, the user will be able to see the organisation information they belong to.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#) [Log out](#)

The screenshot shows the 'Organisation Information' page. The side navigation bar is the same as in the previous screenshot, but 'Organisation' is highlighted in green. The main content area is titled 'Organisation Information' and displays 'Organisation Name: MSFT'.

By clicking on “Skills” from the side navigation bar, the user will be able to update their skill competency level they have. They will be able to select Skills that are made available by their organisation’s Project Admin which are required to assign a project to the Employee. Employees will be able to indicate their competency level of their skill either as “Beginner”, “Intermediate” or “Advanced”. They will also be able to remove any of the skills they added as well.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#) [Log out](#)

[User Information](#)
[Organisation](#)
[Skills](#)
[Project Preferences](#)
[Change Password](#)

Skills

Java: Intermediate

Node.js: Beginner

PHP: Advanced

C#: Intermediate

Swift: Beginner

Edit Skills

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#) [Log out](#)

[User Information](#)
[Organisation](#)
[Skills](#)
[Project Preferences](#)
[Change Password](#)

Skills

Add New Skills

Select a skill ▼

Edit Skills Competency

Java Intermediate ▼ 🗑️

Node.js Beginner ▼ 🗑️

PHP Advanced ▼ 🗑️

C# Intermediate ▼ 🗑️

Swift Beginner ▼ 🗑️

Cancel Submit

By clicking on “Project Preferences” from the side navigation bar, the user will be able to see the choices they have indicated through the “Select Preference” navigation tab.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#) [Log out](#)

User Information

Organisation

Skills

Project Preferences

Change Password

Project Preferences

First Choice:

TripAid based on LOLs

Second Choice:

Virtual assistant for programmers

Third Choice:

CI/CD app

By clicking on “Change Password” from the side navigation bar, the user will be able to change their password by filling in their Current Password, New Password and Confirm New Password.

Automatic Project Assignment

[Project Listings](#) [Select Preference](#) [Assigned Projects](#) [Profile](#) [Log out](#)

User Information

Organisation

Skills

Project Preferences

Change Password

Change Password

Current Password

New Password

Confirm New Password