MIDDLE EAST TECHNICAL UNIVERSITY
NORTHERN CYPRUS CAMPUS

DEPARTMENT
OF
COMPUTER ENGINEERING

CNG 495

Fall – 2023

Term Project Progress Report I

NCC Pet Adoption Platform

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Zeycan’s parts:

Milestones achieved:

WEEKS	TASKS
WEEK 1 (02-08 OCT)	Introduction to Cloud Computing Course
WEEK 2 (09-15 OCT)	Learning about Cloud Computing and Services
WEEK 3 (16-22 OCT)	Determining Group Members and Project Topic
WEEK 4 (23-29 OCT)	After deciding on the project topic, determining the general features of the project
WEEK 5 (30 OCT- 5 NOV)	Comparing AWS and Azure Services, examining each one.
WEEK 6 (6-12 NOV)	After deciding on AWS, determining the other frameworks and languages to be used.(React,PostgreSQL,JavaScript)
WEEK 7 (13-19 NOV)	Creating account on AWS, exploring examples related to AWS.
WEEK 8 (20-26 NOV)	To refresh my knowledge on React, engage in revision, decide on the integration between React and AWS, and examine examples related to this connection.
WEEK 9 (22 NOV-3 DEC)	Creating the implementation of the main page of the project, named 'Animal,' and the user information page and other related pages in React using VS Code.
WEEK 10 (4-10 DEC)	Creating the implementation of the home page of the projects in React using VS Code. Creating GitHub repository, and sharing the code on this repository.Preparing Stage 2 report.

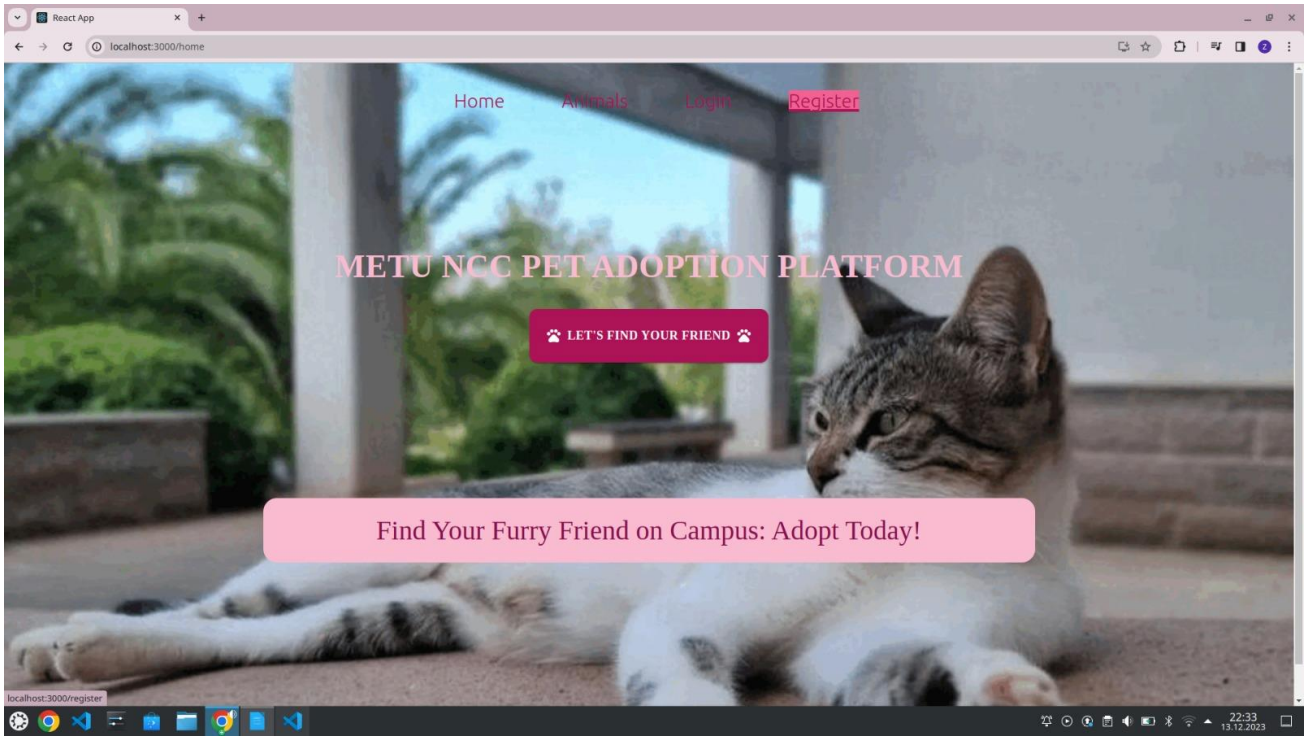

Figure 1: Home Page

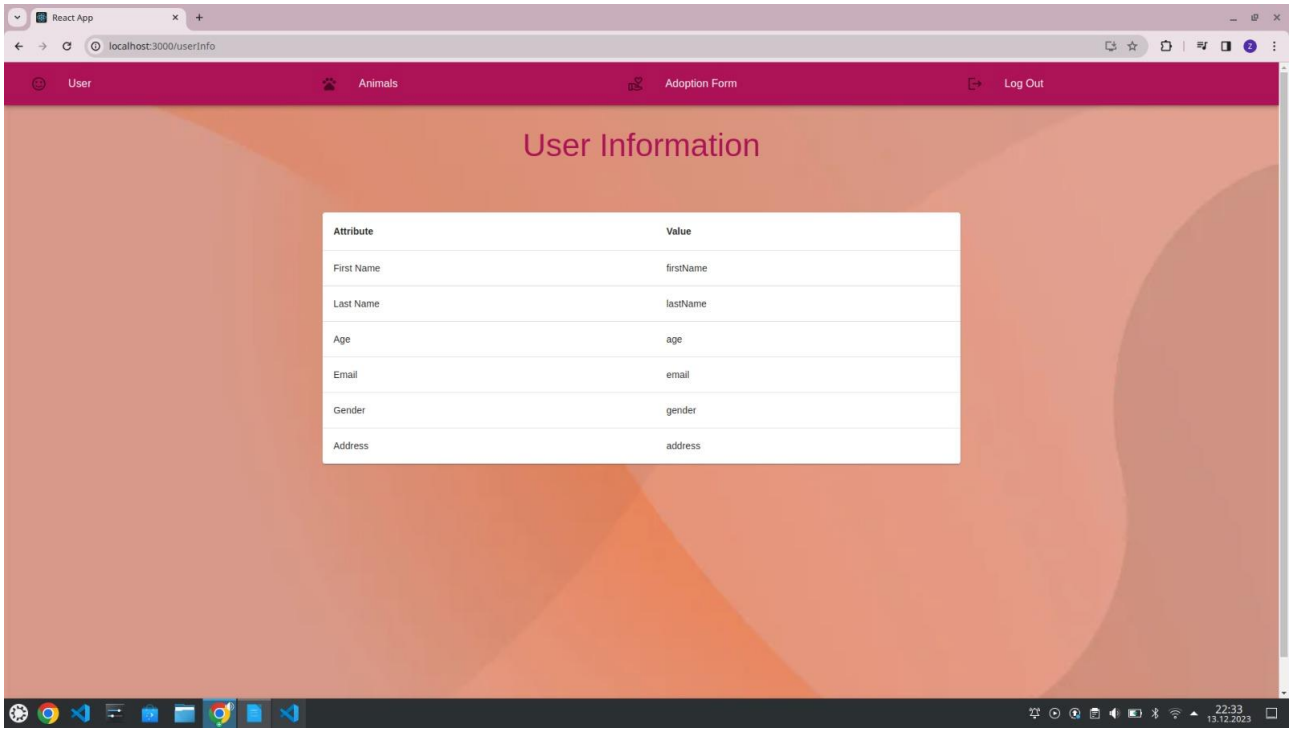

Figure 2: User Information Page

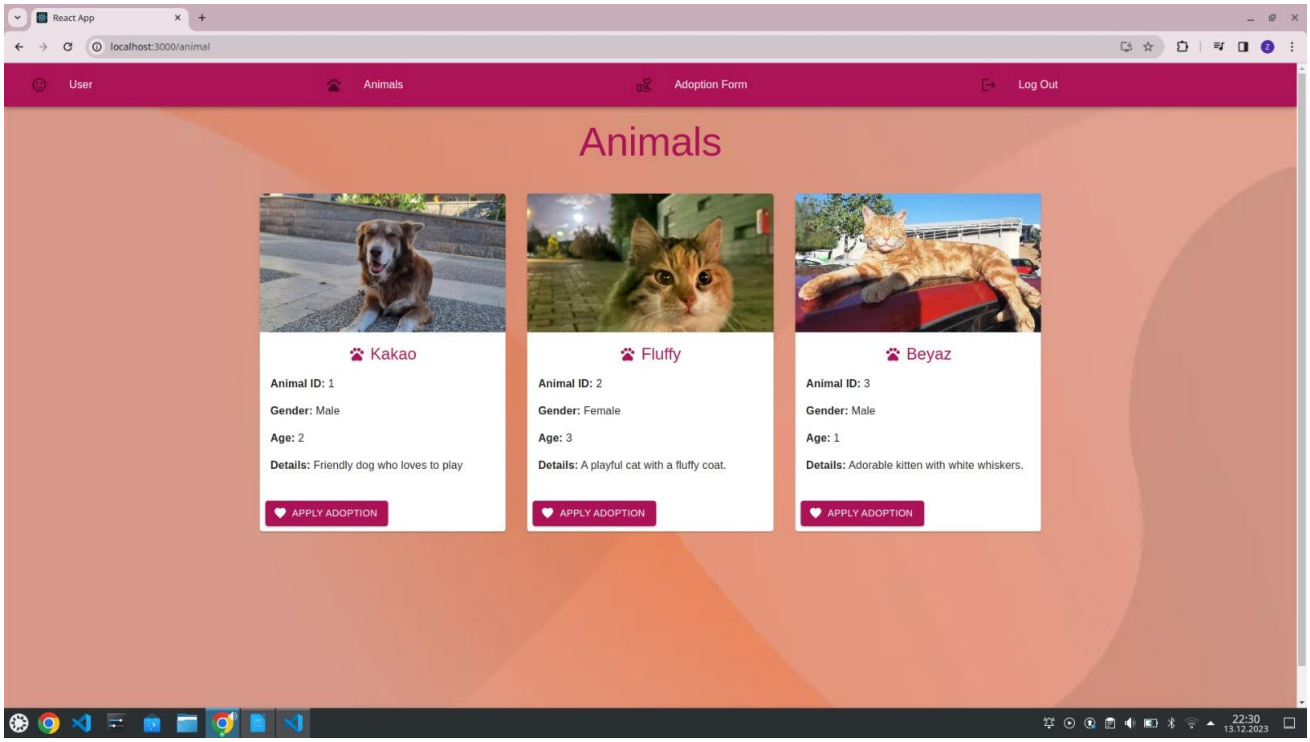

Figure 3: Animals Page

Figure 3 represents the Animal Page is a page displaying photos and information of campus animals for those seeking companionship. The AppBar, present on every page, directs the user to relevant sections. Animal information is currently manually added as we haven't integrated the project with a database yet. However, animal images are stored in an AWS S3 bucket, and their URLs are utilized.

Figure 1 and Figure 2 represents Home page and User Information page. The "Apply Adoption" button redirects the user to the Adoption Form page. The User Information Page contains details of a logged-in user, to be later retrieved from the database. The Home page is a shared space for both registered and non-registered users. On the Home page, we've created a GIF from photos of campus animals to serve as the background. It features a navigation bar at the top, appearing more transparent but underlining and changing color upon mouse hover. The page includes a slogan at the bottom, with a central button guiding users to the page showcasing our animals.

Esra's Parts:

Milestones achieved:

WEEKS	TASKS
WEEK 1 (02-08 OCT)	Introduction to Cloud Computing Course
WEEK 2 (09-15 OCT)	Learning about Cloud Computing and Services
WEEK 3 (16-22 OCT)	Determining Group Members and Project Topic
WEEK 4 (23-29 OCT)	After deciding on the project topic, determining the general features of the project
WEEK 5 (30 OCT- 5 NOV)	Comparing AWS and Azure Services, examining each one.
WEEK 6 (6-12 NOV)	After deciding on AWS, determining the other frameworks and languages to be used.(React,PostgreSQL,JavaScript)
WEEK 7 (13-19 NOV)	We decide to continue with AWS. creating account on AWS.
WEEK 8 (20-26 NOV)	Tried to understand how React and AWS work together. Search for what is Material UI in React.
WEEK 9 (22 NOV-3 DEC)	Implement Login Page, Register Page, and Adoption From with React in VSCode.
WEEK 10 (4-10 DEC)	Implement Adoption From with React in VSCode. Pushed codes to the GitHub repository. Preparing Stage 2 report.

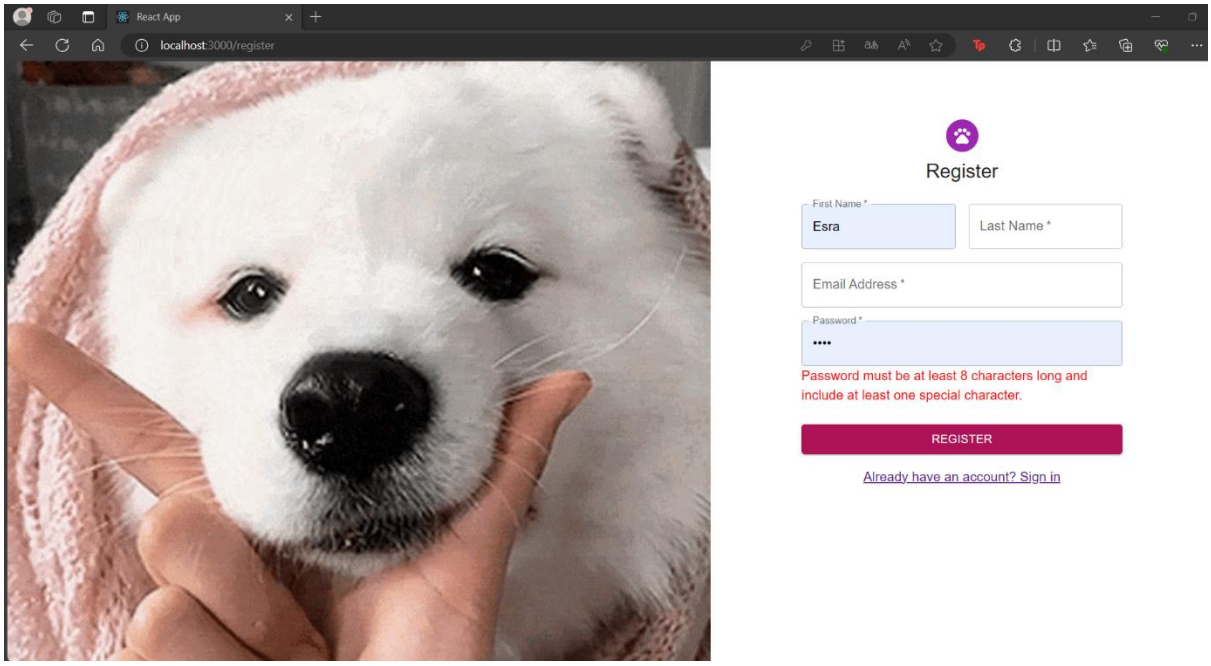

Figure 4: Register Page

Figure 4 represents the UI I created for the Register page. To access the register page, click on the "Register" text at the top of the Home page. A user who wants to use the page must enter First Name, Last Name, Email Address, and Password information to register. If the created password is less than 8 characters and does not contain any of the special characters (?, ., +, -, *, /), the system displays a warning message and asks the user to enter the password in compliance with these conditions. After providing all the necessary information, the user clicks the Register button. The system checks if the entered information already exists in the database. If the information is not found in the database, the user's registration is created and added to the database. If the user who will use the system already has an account, they are directed to the login page by clicking on the "Already have an account? Sign in" text below the Register button.

**We didn’t connect our system with the Database yet.

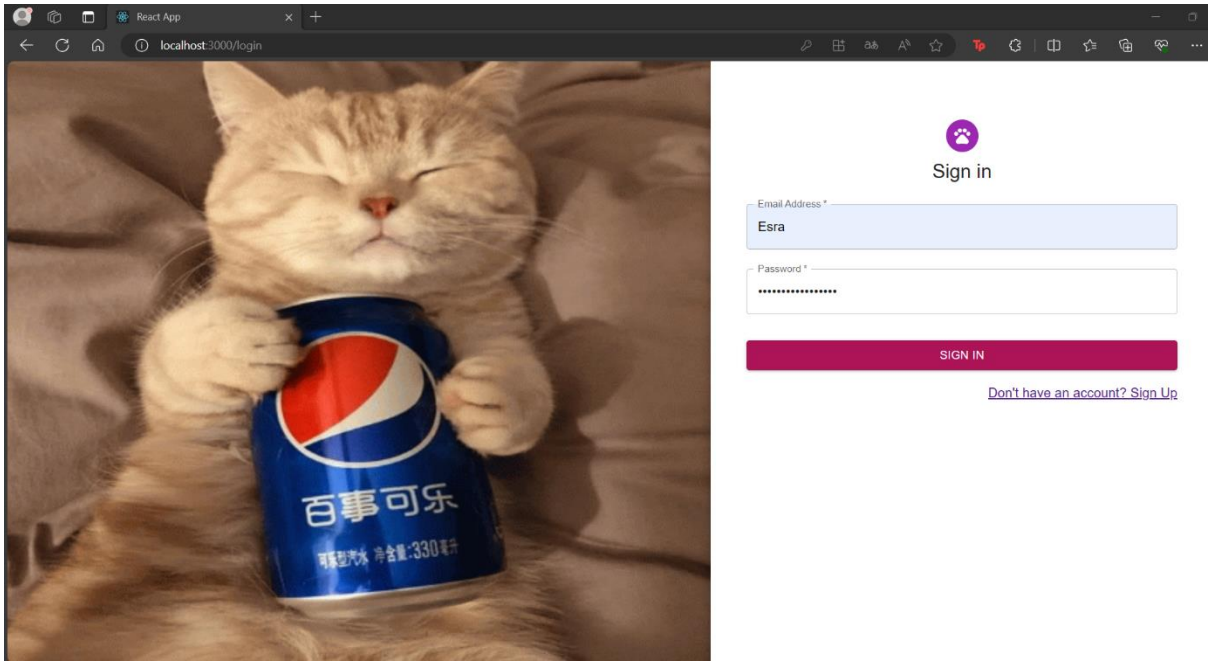

Figure 5: Login Page

Figure 5 represents the UI I created for the Login page. To access the Login page, click on the "Login" text at the top of the Home page. A user who wants to use the system and has previously registered can log in to this page by entering their email address and password, and clicking the SIGN IN button. When the user enters the necessary inputs, the system checks from the database whether such a user has registered before. If the entered informations are found in the database, the user is signed in to the system.

**We didn’t connect our system with the Database yet.

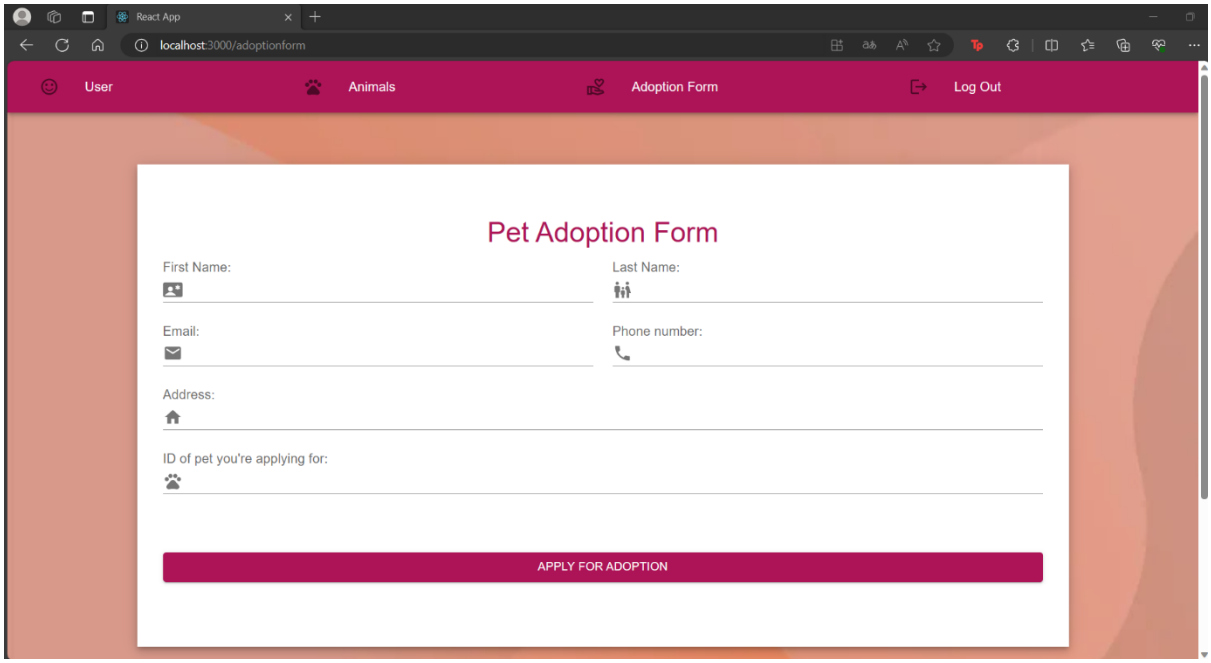

Figure 6: Pet Adoption Form

Figure 6 represents the UI I created for the Animal Adoption page. Users can apply to adopt one of the animals in the system by filling out this form. The user filling out this form must be a registered user. The user should enter their First Name, Last Name, Email, Phone Number, Address, and the ID of the pet they are applying for in the form. When they enter all the information correctly, their applications will be processed by the system.

**After implementing the pages separately for which we were responsible, Esra and Zeycan worked together on Zeycan's computer to establish the connection between the pages and set the final design. They linked the pages and pushed the improved version of the project to the GitHub Main branch. Later, Esra and Zeycan worked together on Esra's computer on the Main branch to add the final details and improve the design. Finally, Esra added the Database file from Serra's branch to the project and pushed the changes to the Main branch.

Serra’s Task:

Milestones Remaining:

WEEKS	TASKS	GROUP MEMBER
WEEK 11 (11 DEC - 17 DEC)	Finalize Stage 2 Report. Discussion about S3, Amplify, EC2, Lambda.	Esra, Serra, Zeycan.
WEEK 12 (18 DEC – 24 DEC)	Try to connect S3 images to React Animal Page.	Zeycan.
WEEK 12 (18 DEC – 24 DEC)	Try to connect User table in AWS RDS to Login Page and Register page in React.	Esra.
WEEK 12 (18 DEC – 24 DEC)	Finalize the setting on Aws side, and do last updates on database.	Serra.
WEEK 13 (25 DEC – 31 DEC)	Create test cases, and test the site according to them. Finalize the project.	Esra, Serra, Zeycan.
WEEK 14 (1 JAN- 5 JAN)	Finalize the Stage 3 report.	Esra, Serra, Zeycan.

Difficulties:

We successfully set up the pages in the front-end part of the React project, but we encountered difficulties in establishing the connection of these pages with the cloud. During the installation of Amplify in the React project, we faced a few unsuccessful attempts. We couldn't fully establish the connection between Amplify and the database. Although we attempted to place the entire project in an AWS storage, we initially faced issues on the GitHub side. After adjusting the permissions on GitHub and setting up the fork, we resolved those issues. However, we later noticed that our latest updates were not reflected in the project.

As a result, to better understand the working structure in the cloud and make a few more attempts, we left these aspects for the 3rd report. Our plan after Stage 2 report is to gain a clearer understanding of the working processes of Amplify, Cognito, Lambda, S3, and EC2. We will examine examples and choose a suitable solution by analyzing them.

Github: You can reach our reporsitory from the given link below. (It’s public). We have 4 branches in this repository named: esra, zeycan, Serra, main.

https://github.com/EsraNurImdat/NCC-Pet-Adoption-Platform

Cloning URL of the project: https://github.com/EsraNurImdat/NCC-Pet-Adoption-Platform.git