**FIT5225 Ass2 – Image Upload and Query Application**

**Task 3.4 UI Design & DEV**

This web-based application is built up within Amplify framework, which provides rich libraries for development, encompassing frond-end UI design and back-end configuration. As the key component, the Amplify Console facilitates our team to build, deploy, and host this could-powered application seamlessly.

The application includes four major functionalities, namely Log in, Sign up, Image Upload and Return Query. Considering the simplification and useability, last two functionalities are integrated into one page.

**Log in page**

The Log in page provides users with multiple options, Sign in Google and other email accounts.

Google account log in

A screenshot of a cell phone

Description automatically generated

Front-end Design with basic verification, including username and password.

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It offers reset password function which synchronizes one within AWS User Pool

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**Sign Up page**

The user can register a new account in this page. The information of following attributes are required: First name, Family name, Password and Email.

Moreover, password verification is configured in accordance with password complexity requirement of AWS User Pool

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**Image Upload & Query page**

Users can redirect themselves to Image Upload page by clicking button ‘Click button to upload image’

A screenshot of a mountain

Description automatically generated

User upload image from this page to S3 by clicking button ‘Browser’ and then clicking ‘Save file’

Before loading image

A screenshot of a computer

Description automatically generated

After image loaded

A screenshot of a cell phone

Description automatically generated

Once image is loaded to S3 bucket, users may query image they want by selecting the object category. Here eight options are available: e.g. person, elephant, umbrella, cat, dog, bus, skateboard and car. Users feel free to tick and then click button ‘Submit’.

Eventually, the image containing the selected objects will be displayed on the screen.

1)When select only one category (e.g. cat), the webpage will return image(s) containing cat

A screenshot of a cat

Description automatically generated

b) When select three categories (e.g. person, umbrella and car), the webpage will return image(s) containing person, umbrella and car

A screenshot of a social media post

Description automatically generated

c) When select all categories (e.g. person, elephant, umbrella, cat, dog, bus, skateboard and car),

the webpage will prompt message ‘no this image’

A screenshot of a computer

Description automatically generated

This page redirects users back to Home page with clicking button ‘Home’.

A screenshot of a cell phone

Description automatically generated

To Home page as shown below,

A screenshot of a mountain

Description automatically generated