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

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, we integrate the last two functions into one page.

**Log in page**

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

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’

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User feels free to upload image from client-end to S3 by clicking button ‘Browser’ and then clicking ‘Save file’

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After loading image to S3 bucket, users may query image they want by selecting the object category. Here three options are available: person, dog and box. Users feel free to tick and then click button ‘Submit’.

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Eventually, the image containing the selected objects will be return to imagebox.