**PE04: Programming Exercise**

In this programming exercise, we build the contact organizer application using AWS services.

* First, we created the necessary folders to set up the project structure. Capabilities will hold the back end, and the Website folder will have the front end.

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* Next, we implement different services, including a recognition service to extract text from images, an extraction service to extract information from text using Amazon Comprehend and Comprehend Medical, a contact store to store and retrieve contact information using AWS DynamoDB, and storage services to upload the contact image. We also manually created the table Contacts for DynamoDB.

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* Next, we implemented three restful APIs to upload the image, extract the contact information, and save the contact.

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* In the next step, we created the web page and the JavaScript file to call the backend restful APIs.

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* Finally, we set the dev policy changes, updated the requirements, and using AWS Chalice, we deployed the application to the internet. Here is the result of testing some contact images.

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