

CMPE 277 - Project Proposal

Team:

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App Name: **iClaim- Easy Reimbursement**

App Icon:



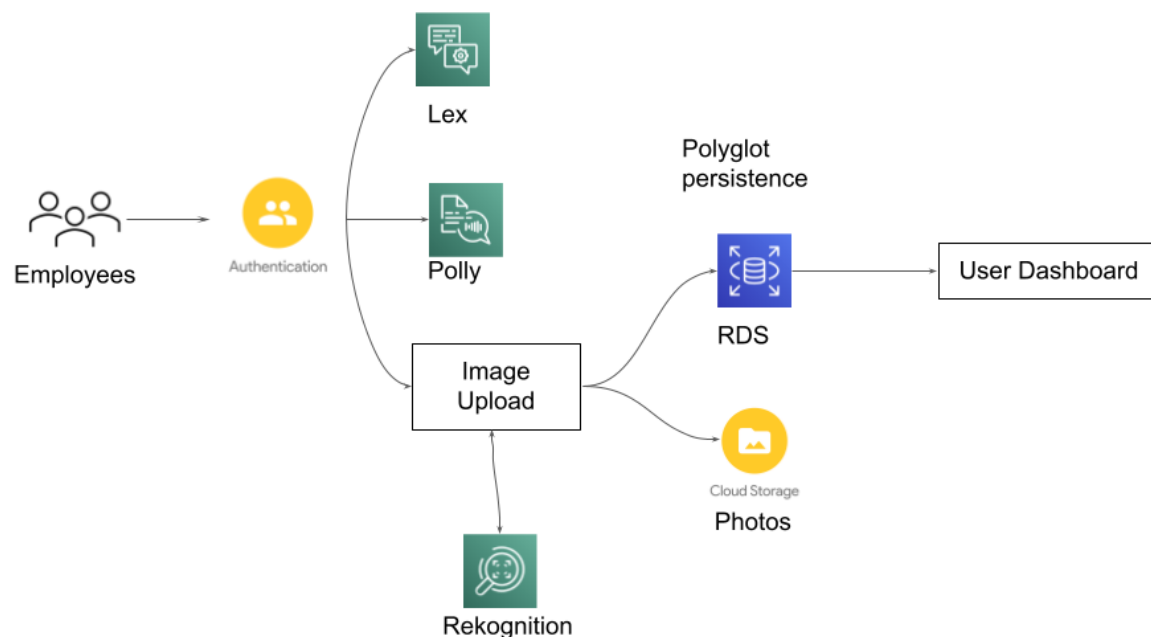
Github Repo: <https://github.com/ParvathiRPai/SmartPhoneApplication>
(Sent Github repo invite to Professor Liu's SJSU email id)

Application Idea

Due to the COVID-19 pandemic most of the companies have adapted work from home and would continue for an unforeseeable future. To help employees create a productive workplace at home and to have a good work-life balance, many companies are providing reimbursement on items like desks, wifi, gym equipment etc., that are purchased by the employees to sustain these unprecedented times.

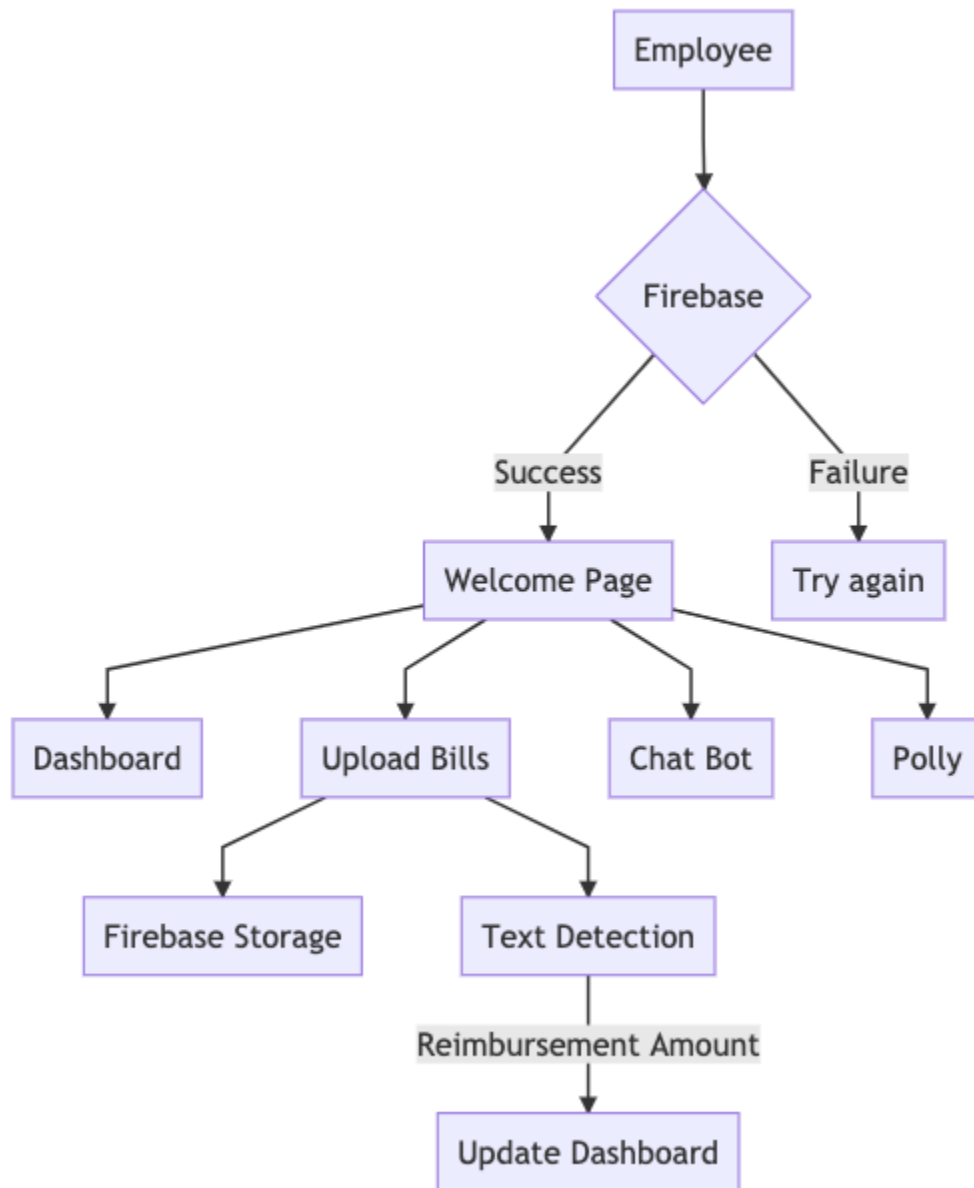
This android application provides a platform for easy enterprise reimbursements.

Architecture diagram



- 1) Customer login and lands on the dashboard activity where users can view past claims or submit new claims or navigate the application using the chatbot.
- 2) Customers upload receipts from their phone's gallery.
- 3) Receipts are stored in Firebase storage.
- 4) Using Firebase ML kit, detect text in the image uploaded, identify the items valid for reimbursement and notify the amount claimed.
- 5) Claim Information is stored in Firestore and displayed on the Dashboard page.
- 6) Amazon Lex is used to navigate through the application.
- 7) Amazon Polly will help convert text-to-speech and read out loud the claim information.

Flow chart



Features Distribution:

Name	UI component	Backend Component
Parvathi Pai	User Authentication screen, Image upload	Firebase Sign-in, Image upload capability and storing the image in Firestore/Storage in google cloud.
Shreya Ghotankar	App Icon, App bar, Claim info page	Text Detection for the uploaded image using Firebase ML kit and update the database with claim information.
Sania Gonsalves	Text to Speech screen	Using AWS Polly read claim information from the app screen and make the app convenient.
Krishna Jha	ChatBot screen	Using AWS Lex provide conversational interaction features to user and help navigate the app.