Deployment:

* Official: Airbase (SG Govt Cloud) and DBSlicer (SG Govt Database)
  + Steps:
    - Login into airbase and create a sample project to store app
    - Create new database slicer and edit env file
    - Turn on Docker Desktop
    - On VSC app terminal, type “airbase login”. Click the link and create credentials to login 🡪 should be prompted in terminal once have logged in already
    - On VSC app terminal, type “airbase link” and link app to the project just created
    - On VSC app terminal, type airbase container build 🡪 will build the dockerized container
    - On VSC app terminal, type airbase container deploy to deploy app 🡪 will prompt if deployment is successful or failed on airbase
* Local: Docker Desktop and PGadmin
  + Steps:
    - Set up postgres admin server and database key in details to env file
    - Turn on Docker Desktop
    - “Docker compose build”
    - “Docker compose up”

Code Directory:

* Intern\_Bot.py: Code to handle the bot and the functionalities of it
* db\_utils.py: Code to handle interaction with database
* webserver.py: Code that handles accept/reject link for leave application when sent through email
* .env:
  + Telegram bot token
  + auto email configuration
  + database login info,
  + simulated rpa intern csv info
  + formsg link
* docker-compose.yml
* dockerfile

App workflow:

**Starting of app**

* HR adjusts interns\_new.csv (intern database) for addition or updates to interns and leaves.
* Airbase container build and airbase container deploy to upload csv [Manual simulation. To be done by RPA in the future]
* App starts up

**Checking of Leave**

* Interns can check their leave balance and approved leaves by clicking “Check Leave Balance”

**A screenshot of a menu

AI-generated content may be incorrect.**

**Applying for Leave**

**Cancellation of Leave**

**Edge Cases**

* **Intern has negative leave balance after cutting short internship**
* **Intern applied for 2 leave application together where total leave duration exceeds leave balance**

**To Do**

* Edge cases
* RPA to payroll format for output (to be done outside the bot)
  + Steps:
    - Choose month for payroll
    - Extract out intern data for that month
    - Extract out leave logs for payroll of selected month and previous month. (This is to include leaves with overlapping months)
      * Based on these 2 reports get:
        + Start Date
        + End Date
        + AL taken
        + MC taken
        + NPL
        + OIL
    - Extract Masterlist to get
      * Dept
      * NRIC
      * Name of Bank
      * Bank account number
      * % working days a week (out of 5)
      * Base allowance
      * Actual allowance
      * Cost Center
      * D.O.B
      * CPF eligibility
      * Leave eligibility
    - Get calculations for payroll info
* RPA for uploading of intern db
* Find how to see db from airbase side