

Azure DevOps Participant Assignment

Objective:

1. Break down a Banking Application into:

-Epics

-Features

-User Stories

-Tasks

2. Create a Git repository in Azure DevOps and check in a basic project structure.

3. Configure a basic CI/CD Pipeline to ensure successful build or run.

PART 1

EPIC 1: User Management

Feature 1: User Registration

User Story:

US1: As a new user, I want to register using email and password.

Tasks:

- Design the registration form (UI)
- Create API to handle user registration
- Save user data to the database

Feature 2: User Authentication

User Story:

US1: As a user, I want to log in using valid credentials.

Tasks:

- Design login form (UI)
- Verify credentials with backend API
- Display login success or failure message

Feature 3: Password Reset

User Story:

US1: As a user, I want to reset my password if I forget it.

Tasks:

- Design 'Forgot Password' form
- Send password reset link to email
- Allow password update after verification

EPIC 2: Account Services

Feature 1: Account Creation

User Story:

US1: As a user, I want to create a new bank account.

Tasks:

- Design account creation form
- Validate account details
- Save account to database

Feature 2: View Account Balance

User Story:

US1: As a user, I want to see my account balance after logging in.

Tasks:

- Create API to fetch balance
- Display balance on user dashboard
- Secure balance info with authentication

EPIC 3: Fund Transfer

Feature 1: Internal Fund Transfer

User Story:

US1: As a user, I want to transfer funds to another account in the same bank.

Tasks:

- Design transfer form
- Validate recipient and amount
- Update sender and receiver balances

Feature 2: External Fund Transfer

User Story:

US1: As a user, I want to transfer funds to an account in another bank.

Tasks:

- Enter IFSC and recipient details
- Call mock external bank API
- Show transfer confirmation

EPIC 4: Transaction History

Feature 1: View Transactions

User Story:

US1: As a user, I want to view my past transactions.

Tasks:

- Fetch transactions via API
- Display in table format
- Allow basic sorting by date

Feature 2: Export Transaction Statement

User Story:

US1: As a user, I want to download my statement as PDF or Excel.

Tasks:

- Add download button
- Generate file in selected format
- Trigger file download

EPIC 5: Security & Compliance

Feature 1: Two-Factor Authentication (2FA)

User Story:

US1: As a user, I want to verify login using an OTP.

Tasks:

- Generate OTP at login
- Send OTP to email/SMS
- Validate OTP before access

Banking Application

Overview

Boards

Work Items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

Project settings

Banking Application Team

Board Analytics

View as backlog

Stories

New

Active 2/5

Resolved 1/5

Closed

New item

72 As a user, I want to log in using valid credentials

Haley Pearl Caxmi T

0/3

Add Task

Design login form (UI)

Create login API

Match credentials with data...

89 As a user, I want to transfer funds to an account in another bank

Haley Pearl Caxmi T

0/3

Add Task

Design fund transfer form

Validate recipient account n...

Check sender's available ba...

68 As a new user, I want to register using email and password

Haley Pearl Caxmi T

0/3

Add Task

Design the registration form...

Create registration API (bac...

Store user credentials in dat...

77 As a user, I want to reset my password in case I forget it

Haley Pearl Caxmi T

0/3

Add Task

Design 'Forgot Password' fo...

Generate password reset to...

Send email with secure rese...

93 As a user, I want to transfer funds to an account in another bank

Haley Pearl Caxmi T

0/3

Add Task

Design external transfer form

Validate IFSC and external a...

Implement bank API integra...

81 As a registered user, I want to create a new savings or current account.

Haley Pearl Caxmi T

0/3

Add Task

Create API to fetch account ...

Display balance on user das...

Secure API with authenticati...

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Recently updated

New Work Item

Open filtered view in Queries

Column Options

Import Work Items

Recycle Bin

Filter by keyword

User Story

Assigned to

States

Area

Tags

ID

Title

Assigned To

State

Area Path

Tag

89 As a user, I want to transfer funds to an account in another bank

Haley Pearl Caxmi T

New

Banking Application

85 As a user, I want to transfer funds to another account within the sa

Haley Pearl Caxmi T

Active

Banking Application

77 As a user, I want to reset my password in case I forget it

Haley Pearl Caxmi T

Resolved

Banking Application

72 As a user, I want to log in using valid credentials

Haley Pearl Caxmi T

New

Banking Application

68 As a new user, I want to register using email and password

Haley Pearl Caxmi T

Active

Banking Application

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Inbox (5,419) - haleypcaxmi x My Information x Work items - Boards x July 07th - Google Drive x

dev.azure.com/haleypcaxmi/Banking%20Application/_workitems/recentlyupdated/

Azure DevOps haleypcaxmi / Banking Application / Boards / Work items

Banking Application +

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Work items

Recently updated ▾ + New Work Item ▾ → Open filtered view in Queries Column Options Import Work Items Recycle Bin

Filter by keyword Task ▾ Assigned to ▾ States ▾ Area ▾ Tags ▾ X

ID	Title	Assigned To	State	Area Path	Tag
86	Design fund transfer form	Haley Pearl Caxmi T	New	Banking Application	
84	Secure API with authentication	Haley Pearl Caxmi T	New	Banking Application	
83	Display balance on user dashboard	Haley Pearl Caxmi T	New	Banking Application	
82	Create API to fetch account balance	Haley Pearl Caxmi T	New	Banking Application	
80	Send email with secure reset link	Haley Pearl Caxmi T	New	Banking Application	
79	Generate password reset token	Haley Pearl Caxmi T	New	Banking Application	
78	Design 'Forgot Password' form	Haley Pearl Caxmi T	New	Banking Application	
76	Match credentials with database	Haley Pearl Caxmi T	New	Banking Application	
75	Create login API	Haley Pearl Caxmi T	New	Banking Application	
73	Design login form (UI)	Haley Pearl Caxmi T	New	Banking Application	
71	Store user credentials in database	Haley Pearl Caxmi T	New	Banking Application	
70	Create registration API (backend)	Haley Pearl Caxmi T	New	Banking Application	
69	Design the registration form (UI)	Haley Pearl Caxmi T	New	Banking Application	

dev.azure.com/haleypcaxmi/Banking%20Application/_workitems/recentlyupdated/

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Banking Application +

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Work items

Recently updated ▾ + New Work Item ▾ → Open filtered view in Queries Column Options Import Work Items Recycle Bin

Filter by keyword Task ▾ Assigned to ▾ States ▾ Area ▾ Tags ▾ X

ID	Title	Assigned To	State	Area Path	Tag
96	Implement bank API integration (mock)	Haley Pearl Caxmi T	New	Banking Application	
95	Validate IFSC and external account details	Haley Pearl Caxmi T	New	Banking Application	
94	Design external transfer form	Haley Pearl Caxmi T	New	Banking Application	
92	Check sender's available balance	Haley Pearl Caxmi T	New	Banking Application	
91	Validate recipient account number	Haley Pearl Caxmi T	New	Banking Application	
90	Design fund transfer form	Haley Pearl Caxmi T	New	Banking Application	
88	Check sender's available balance	Haley Pearl Caxmi T	New	Banking Application	
87	Validate recipient account number	Haley Pearl Caxmi T	New	Banking Application	
86	Design fund transfer form	Haley Pearl Caxmi T	New	Banking Application	
84	Secure API with authentication	Haley Pearl Caxmi T	New	Banking Application	
83	Display balance on user dashboard	Haley Pearl Caxmi T	New	Banking Application	
82	Create API to fetch account balance	Haley Pearl Caxmi T	New	Banking Application	
80	Send email with secure reset link	Haley Pearl Caxmi T	New	Banking Application	

Banking Application / Boards / Work items

Work items

Recently updated | + New Work Item | Open filtered view in Queries | Column Options | Import Work Items | Recycle Bin

Filter by keyword

ID	Title	Assigned To	State	Area Path	Tag
67	Audit Logging	Haley Pearl Caxmi T	New	Banking Application	
66	Two-Factor Authentication	Haley Pearl Caxmi T	New	Banking Application	
65	Export Transaction Statement	Haley Pearl Caxmi T	New	Banking Application	
64	View Transactions	Haley Pearl Caxmi T	New	Banking Application	
63	External Fund Transfer	Haley Pearl Caxmi T	New	Banking Application	
62	Internal Fund Transfer	Haley Pearl Caxmi T	New	Banking Application	
61	View Account Balance	Haley Pearl Caxmi T	New	Banking Application	
60	Account Creation	Haley Pearl Caxmi T	New	Banking Application	
59	Password Reset	Haley Pearl Caxmi T	New	Banking Application	
58	User Authentication	Haley Pearl Caxmi T	New	Banking Application	
57	User Registration	Haley Pearl Caxmi T	New	Banking Application	

Banking Application / Boards / Work items

Work items

Recently updated | + New Work Item | Open filtered view in Queries | Column Options | Import Work Items | Recycle Bin

Filter by keyword

ID	Title	Assigned To	State	Area Path	Tag
56	Security & Compliance	Haley Pearl Caxmi T	New	Banking Application	
55	Transaction History	Haley Pearl Caxmi T	New	Banking Application	
54	Fund Transfer	Haley Pearl Caxmi T	New	Banking Application	
53	Account Services	Haley Pearl Caxmi T	New	Banking Application	
52	User Management	Haley Pearl Caxmi T	New	Banking Application	

PART 2 - Azure DevOps Git Setup

1. Create a Git Repo

Azure DevOps → Repos → New Repository → Name it banking-app

Clone repo locally or use portal

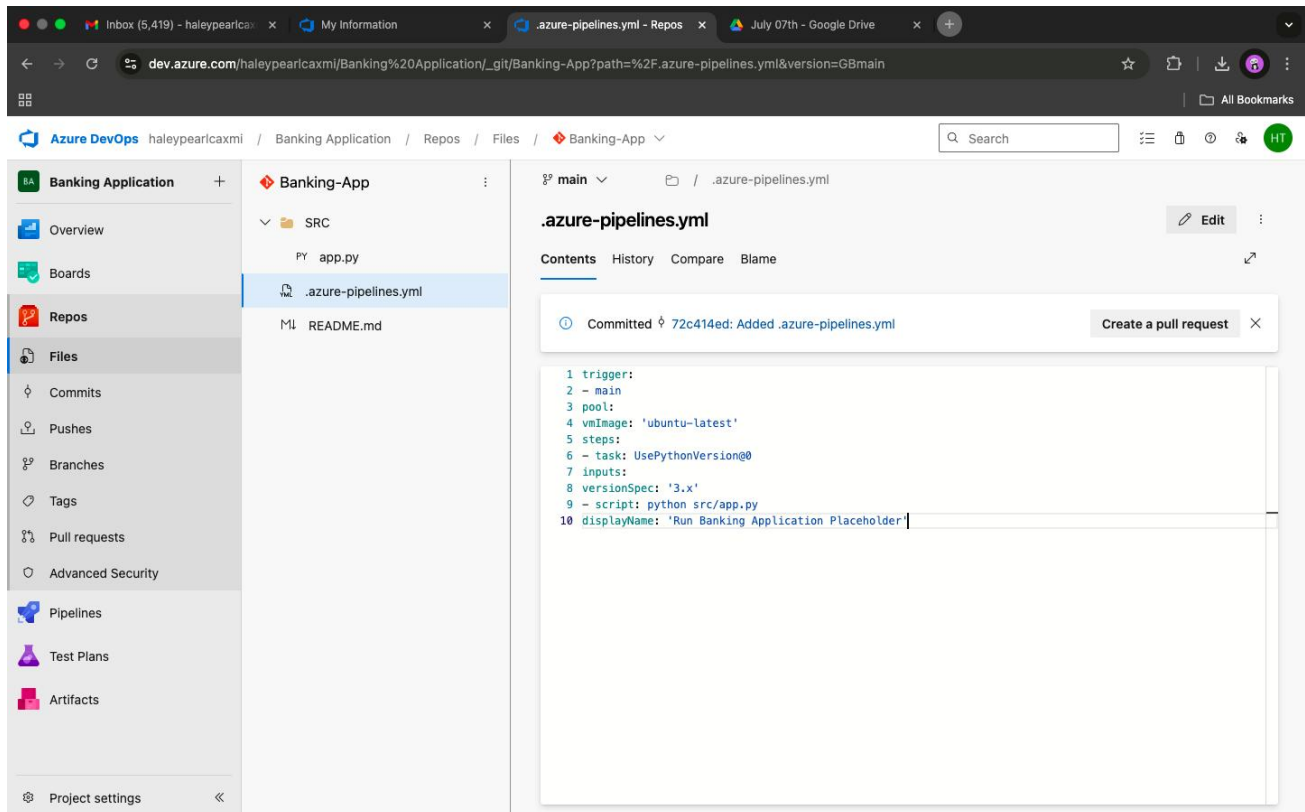
Add a basic project structure:

banking-app/

- └─ README.md
- └─ src/
 - └─ app.py # Placeholder Python file
- └─ .azure-pipelines.yml

app.py can simply contain:

```
print("Banking Application Placeholder")
```



PART 3 - Configure CI/CD Pipeline

1. Create Simple Pipeline

Example .azure-pipelines.yml :

trigger:

- main

pool:

vmImage: 'ubuntu-latest'

steps:

- task: UsePythonVersion@0

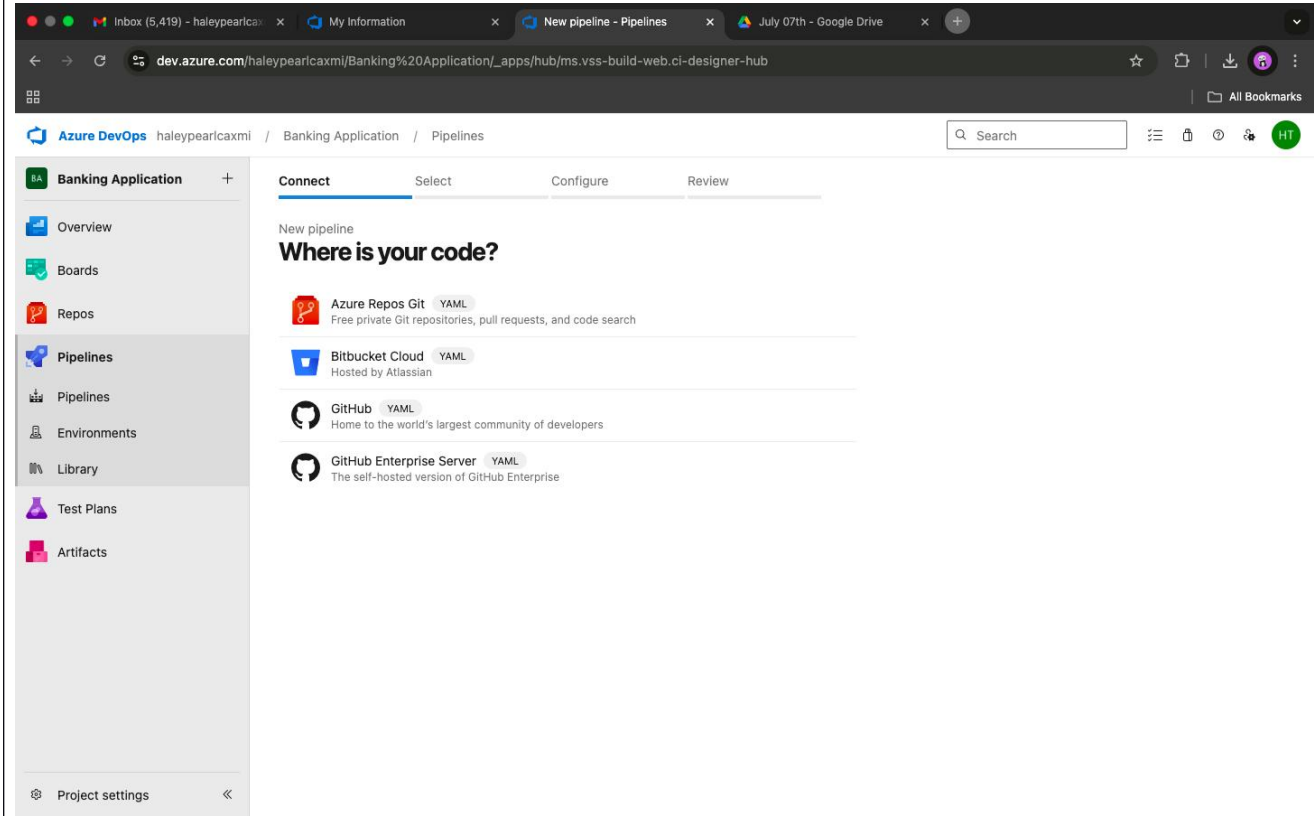
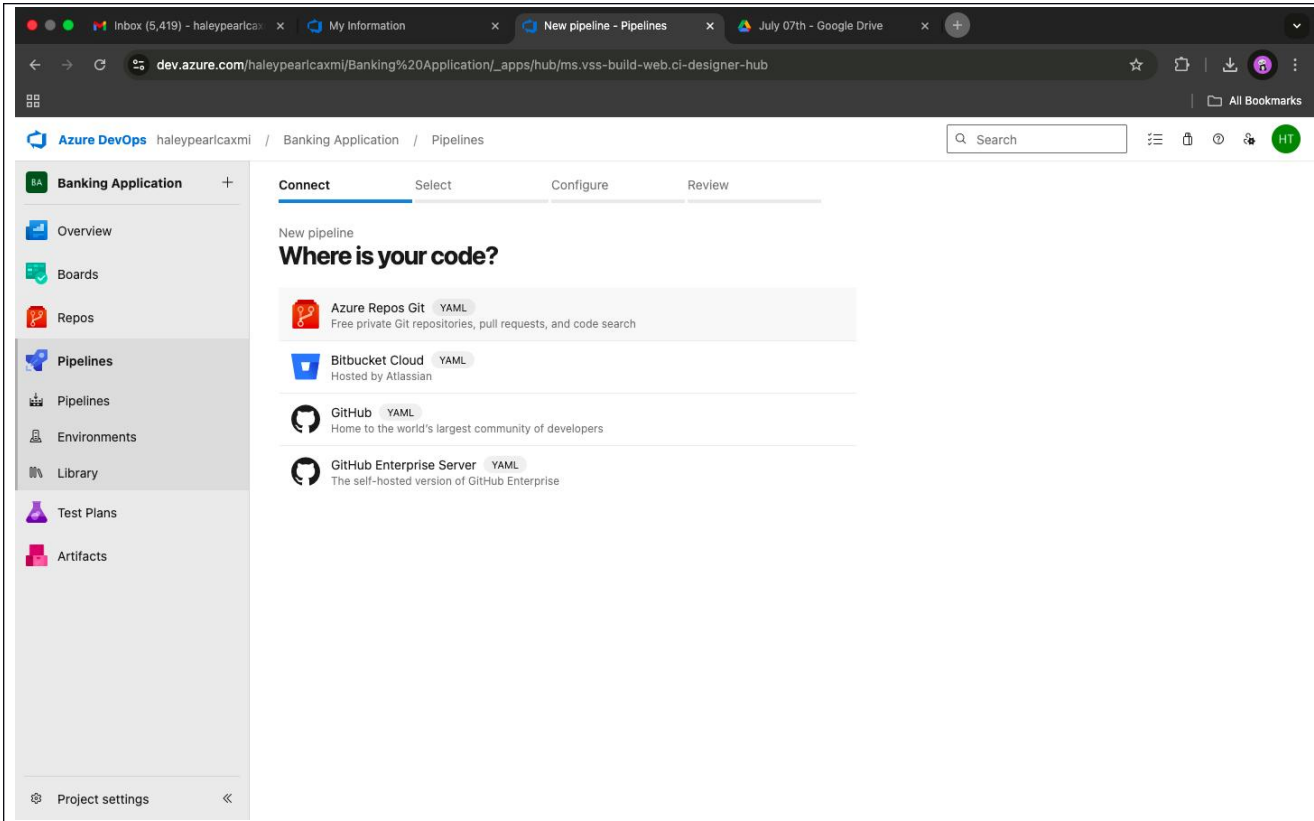
inputs:

versionSpec: '3.x'

- script: python src/app.py

displayName: 'Run Banking Application Placeholder'

Pipeline succeeds if the script runs without errors.



Inbox (5,419) - haleypearca

My Information

Pipelines - Run 2

July 07th - Google Drive

dev.azure.com/haleypearcaxmi/Banking%20Application/_build/results?buildid=2&view=results

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Banking Application

Overview

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Pipelines

Pipelines

Environments

Library

#2 • Added .azure-pipelines.yml

Banking-App

Rerun failed jobs

Run new

⋮

🕒 This run will be cleaned up after 1 month based on your project settings.

Summary

Code Coverage

Manually run by HT Haley Pearl Caxmi T

Repository and version

Banking-App

main 72c414ed

Time started and elapsed

Just now

<1s

Related

0 work items

0 artifacts

Tests and coverage

Get started

View 2 changes