

# Coding Assignment

## PART 1 - Work Item Breakdown

### EPICS

The screenshot shows the Azure DevOps interface for a project named 'Banking Application'. The left sidebar contains navigation options: Overview, Boards, Work items (selected), Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Project settings. The main area displays 'Work items' with a filter set to 'Recently updated'. A table lists 5 work items, all assigned to 'Rohit Nikam' and in 'New' state, under the Epic 'Security & Compliance'.

ID	Title	Assigned To	State	Area Path
88	Security & Compliance	Rohit Nikam	New	Banking Application
87	Transaction History	Rohit Nikam	New	Banking Application
86	Fund Transfer	Rohit Nikam	New	Banking Application
85	Account Services	Rohit Nikam	New	Banking Application
84	User Management	Rohit Nikam	New	Banking Application

### FEATURES

The screenshot shows the Azure DevOps interface for the same 'Banking Application' project. The left sidebar is identical. The main area displays 'Work items' with a filter set to 'Feature'. A table lists 12 work items, all assigned to 'Rohit Nikam' and in 'New' state, under the Feature 'External Transfer'. The work item with ID 96 is highlighted.

ID	Title	Assigned To	State	Area Path	Tags
101	Audit Logs	Rohit Nikam	New	Banking Application	
100	Multi-factor Authentication	Rohit Nikam	New	Banking Application	
99	Export History	Rohit Nikam	New	Banking Application	
98	Filter Transactions	Rohit Nikam	New	Banking Application	
97	View Transactions	Rohit Nikam	New	Banking Application	
96	External Transfer	Rohit Nikam	New	Banking Application	
95	Internal Transfer	Rohit Nikam	New	Banking Application	
94	View Account Details	Rohit Nikam	New	Banking Application	
93	Account Creation	Rohit Nikam	New	Banking Application	
92	Profile Update	Rohit Nikam	New	Banking Application	
91	Password Reset	Rohit Nikam	New	Banking Application	
90	User Authentication	Rohit Nikam	New	Banking Application	

# USER STORIES

dev.azure.com/HexawareRS/Banking%20Application/\_workitems/recentlyupdated/?fullScreen=true

Work items | + 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	Tags
128	View Logs	Rohit Nikam	New	Banking Application	
127	Track User Activity	Rohit Nikam	New	Banking Application	
126	MFA Setup Option	Rohit Nikam	New	Banking Application	
125	Enable MFA via OTP	Rohit Nikam	New	Banking Application	
124	Download as PDF	Rohit Nikam	New	Banking Application	
123	Transaction Type Filter	Rohit Nikam	New	Banking Application	
122	Amount-Based Filter	Rohit Nikam	New	Banking Application	
121	Date-Based Filter	Rohit Nikam	New	Banking Application	
120	Detailed View	Rohit Nikam	New	Banking Application	
119	List Past Transactions	Rohit Nikam	New	Banking Application	
118	Add Beneficiary	Rohit Nikam	New	Banking Application	
117	Send to Another User	Rohit Nikam	New	Banking Application	

dev.azure.com/HexawareRS/Banking%20Application/\_workitems/recentlyupdated/?fullScreen=true

Work items | + 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	Tags
116	Check Balance Before Transfer	Rohit Nikam	New	Banking Application	
115	Transfer Between Own Accounts	Rohit Nikam	New	Banking Application	
114	View Account Info	Rohit Nikam	New	Banking Application	
113	Check Account Balance	Rohit Nikam	New	Banking Application	
112	View Account Number	Rohit Nikam	New	Banking Application	
111	Open Bank Account	Rohit Nikam	New	Banking Application	
110	Update Email/Phone	Rohit Nikam	New	Banking Application	
109	Edit Personal Info	Rohit Nikam	New	Banking Application	
108	Password Change Post Login	Rohit Nikam	New	Banking Application	
107	Forgot Password Flow	Rohit Nikam	New	Banking Application	
106	Invalid Credentials Handling	Rohit Nikam	New	Banking Application	
105	Session Management	Rohit Nikam	New	Banking Application	
104	User Login	Rohit Nikam	New	Banking Application	

# TASKs

dev.azure.com/HexawareRS/Banking%20Application/\_workitems/recentlyupdated/

Azure DevOps HexawareRS / Banking Application / Boards / Work items

Work items

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

Filter by keyword

ID	Title	Assigned To	State	Area Path
138	Create Registration API (Backend)	Rohit Nikam	New	Banking Application
137	Design	Rohit Nikam	New	Banking Application
136	Store user data in database	Rohit Nikam	New	Banking Application
135	Design Registration UI (Frontend)	Rohit Nikam	New	Banking Application
134	Design Registration UI (Frontend)	Rohit Nikam	New	Banking Application
133	Handle duplicate registration errors	Rohit Nikam	New	Banking Application
132	Validate email and password format	Rohit Nikam	New	Banking Application
131	Store user data in database	Rohit Nikam	New	Banking Application
130	Create Registration API (Backend)	Rohit Nikam	New	Banking Application
129	Design Registration UI (Frontend)	Rohit Nikam	New	Banking Application

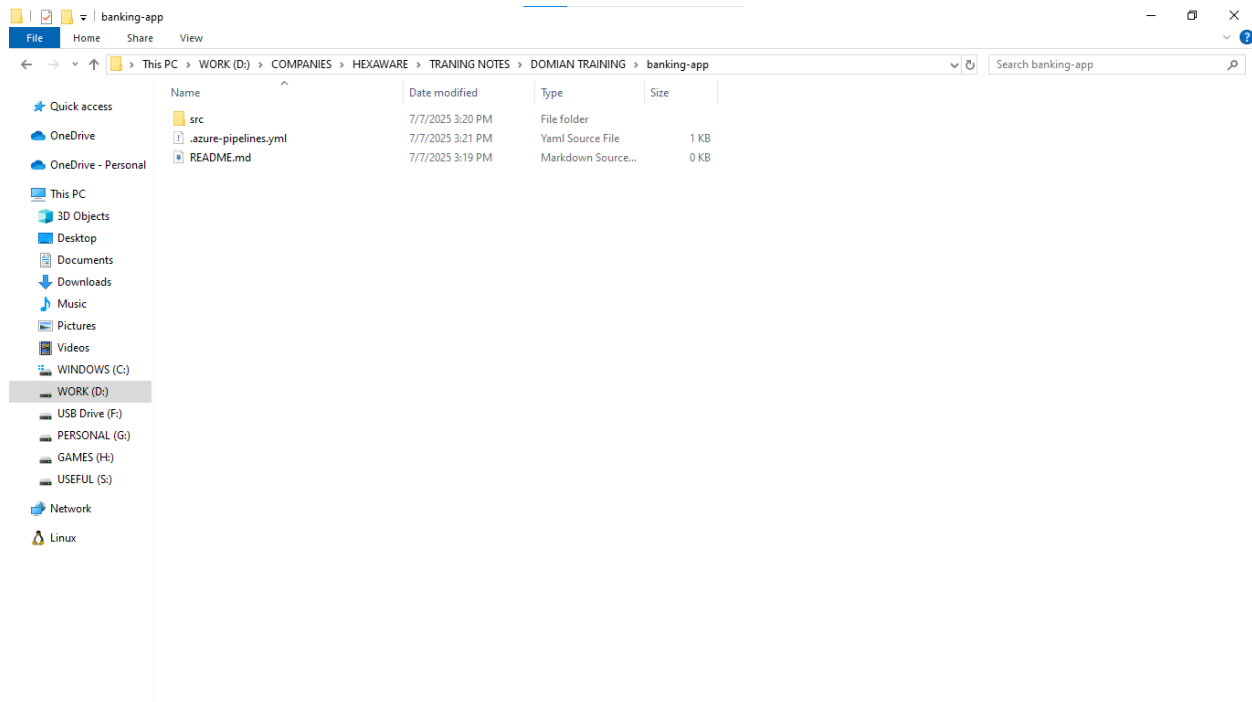
dev.azure.com/HexawareRS/Banking%20Application/\_workitems/recentlyupdated/?fullScreen=true

Work items | + New Work Item | Open in Queries | Column Options | Import Work Items | Recycle Bin

Filter by keyword

ID	Title	Assigned To	State	Area Path	Tags
140	Create internal transfer API (POST /transfer/internal)	Rohit Nikam	New	Banking Application	
139	Design forgot password UI	Rohit Nikam	New	Banking Application	
138	Create Registration API (Backend)	Rohit Nikam	New	Banking Application	
137	Design	Rohit Nikam	New	Banking Application	
136	Store user data in database	Rohit Nikam	New	Banking Application	
135	Design Registration UI (Frontend)	Rohit Nikam	New	Banking Application	
134	Design Registration UI (Frontend)	Rohit Nikam	New	Banking Application	
133	Handle duplicate registration errors	Rohit Nikam	New	Banking Application	
132	Validate email and password format	Rohit Nikam	New	Banking Application	
131	Store user data in database	Rohit Nikam	New	Banking Application	
130	Create Registration API (Backend)	Rohit Nikam	New	Banking Application	
129	Design Registration UI (Frontend)	Rohit Nikam	New	Banking Application	

## PART 2 - Azure DevOps Git Setup



```
D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>git init
Initialized empty Git repository in D:/COMPANIES/HEXAWARE/TRANING NOTES/DOMIAN TRAINING/banking-app/.git/

D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>
```

```
D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>git remote add origin git@ssh.dev.azure.com:v3/HexawareR
S/Banking%20Application/Banking%20Application

D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>
```

```
D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>git add .

D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>git commit -m "File Added"
[master (root-commit) 3d90237] File Added
 3 files changed, 14 insertions(+)
 create mode 100644 .azure-pipelines.yml
 create mode 100644 README.md
 create mode 100644 src/app.py
```

```
D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>git push -u origin --all
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 567 bytes | 141.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Validating commits... (1/1) done (1 ms)
remote: Storing packfile... done (85 ms)
remote: Storing index... done (73 ms)
remote: Updating refs... done (204 ms)
To ssh.dev.azure.com:v3/HexawareRS/Banking%20Application/Banking%20Application
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

D:\COMPANIES\HEXAWARE\TRAINING NOTES\DOMIAN TRAINING\banking-app>
```

Banking Application

Overview

Boards

Repos

Files

Commits

Pushes

Branches

Tags

Pull requests

Advanced Security

Pipelines

Test Plans

Project settings

Banking Application

> src

.azure-pipelines.yml

README.md

master

Type to find a file or folder...

Files

Set up build

Clone

Contents

History

Name	Last change	Commits
src	Just now	3d902371 File Added Rohitnik2266
.azure-pipelines.yml	Just now	3d902371 File Added Rohitnik2266
README.md	Just now	3d902371 File Added Rohitnik2266

## PART 3 - Configure CI/CD Pipeline

The image displays two screenshots of the Azure DevOps web interface, illustrating the process of creating a new pipeline.

**Top Screenshot:** The interface shows the 'New pipeline' wizard in the 'Connect' step. The title is 'Where is your code?'. It lists several options for where the code is located:

- Azure Repos Git (YAML) - Free private Git repositories, pull requests, and code search
- Bitbucket Cloud (YAML) - Hosted by Atlassian
- GitHub (YAML) - Home to the world's largest community of developers
- GitHub Enterprise Server (YAML) - The self-hosted version of GitHub Enterprise

**Bottom Screenshot:** The interface shows the 'New pipeline' wizard in the 'Select' step. The title is 'Select a repository'. A search bar is present with the text 'Filter by keywords'. Below the search bar, a single repository is listed:

- Banking Application

BA Banking Application +

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

Project settings <<

✓ Connect ✓ Select ✓ Configure **Review**

New pipeline

**Review your pipeline YAML**

Variables Run

Banking Application / .azure-pipelines.yml ⚙ Show assistant

```
1 trigger:
2   - main
3
4 pool:
5   - vmImage: 'ubuntu-latest'
6
7 steps:
8   Settings
9   - task: UsePythonVersion@0
10  inputs:
11    - versionSpec: '3.x'
12  - script: python src/app.py
13    displayName: 'Run Banking Application Placeholder'
14
```

BA Banking Application +

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

Project settings <<

#20250707.1 • File Added

Banking Application

Cancel

Summary Code Coverage

Manually run by Rohit Nikam

View change

Repository and version

Banking Application

master 3d902371

Time started and elapsed

Just now

Related

0 work items

0 artifacts

Tests and coverage

Get started

Jobs

Name	Status	Duration
Job	Queued	

✕

Data Engineering Batch 2 - |

✕

✕

Join conversation

✕

✕

Pipelines - Run 20250707.1

✕

✕

July 07th - Google Drive

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✕

Hexaware-Domian-Training

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dev.azure.com/HexawareRS/Banking%20Application/\_build/results?buildId=6&view=results


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 Azure DevOps

HexawareRS / Banking Application / Pipelines / Banking Application / 20250707.1

BA Banking Application

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Overview

Boards

Repos

Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

Project settings

⏪

✖

#20250707.1 • File Added

Banking Application

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  Rohit Nikam

Repository and version

Banking Application

master 3d902371

Time started and elapsed

Just now

<1s

Related

0 work items

0 artifacts

Tests and coverage

Get started

View change

Errors 1

✖ No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form <https://aka.ms/azpipelin...>

20250707.1

View documentation for troubleshooting failed runs

Jobs