Azure DevOps – Banking Application
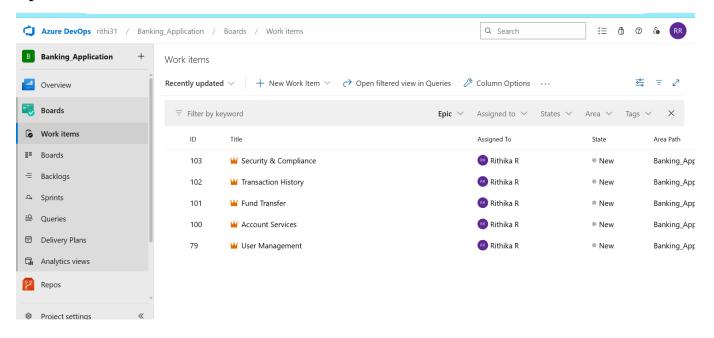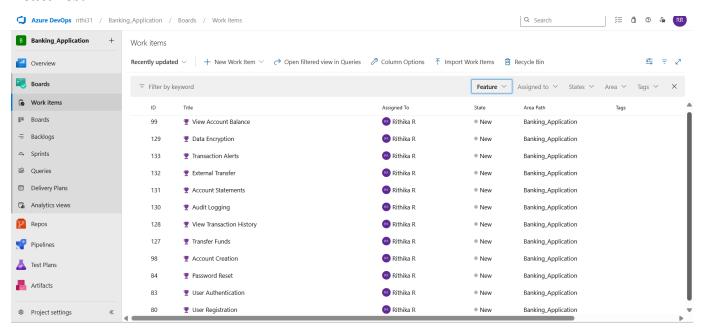
PART 1 - Work Item Breakdown:
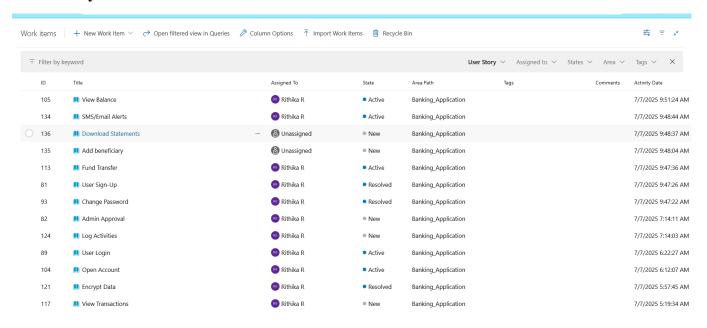
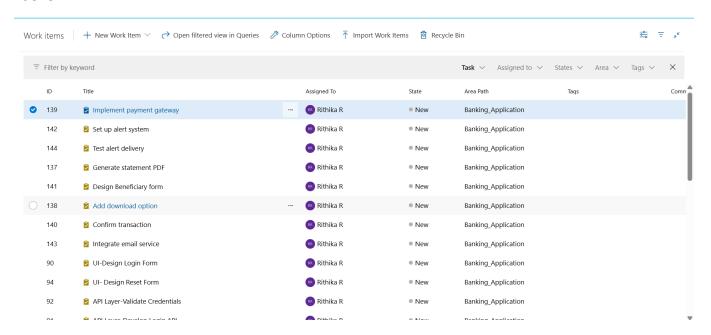## Epic:

Features:

User Story:

Work items   + 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	Tags	Comments	Activity Date
105	View Balance	Rithika R	● Active	Banking_Application			7/7/2025 9:51:24 AM
134	SMS/Email Alerts	Rithika R	● Active	Banking_Application			7/7/2025 9:48:44 AM
136	Download Statements	Unassigned	● New	Banking_Application			7/7/2025 9:48:37 AM
135	Add beneficiary	Unassigned	● New	Banking_Application			7/7/2025 9:48:04 AM
113	Fund Transfer	Rithika R	● Active	Banking_Application			7/7/2025 9:47:36 AM
81	User Sign-Up	Rithika R	● Resolved	Banking_Application			7/7/2025 9:47:26 AM
93	Change Password	Rithika R	● Resolved	Banking_Application			7/7/2025 9:47:22 AM
82	Admin Approval	Rithika R	● New	Banking_Application			7/7/2025 7:14:11 AM
124	Log Activities	Rithika R	● New	Banking_Application			7/7/2025 7:14:03 AM
89	User Login	Rithika R	● Active	Banking_Application			7/7/2025 6:22:27 AM
104	Open Account	Rithika R	● Active	Banking_Application			7/7/2025 6:12:07 AM
121	Encrypt Data	Rithika R	● Resolved	Banking_Application			7/7/2025 5:57:45 AM
117	View Transactions	Rithika R	● New	Banking_Application			7/7/2025 5:19:34 AM

Tasks

Work items   + New Work Item ˅   ↪ Open filtered view in Queries   ⚙ Column Options   ↑ Import Work Items   🗑 Recycle Bin

Filter by keyword   Task ˅   Assigned to ˅   States ˅   Area ˅   Tags ˅   ✕

ID	Title	Assigned To	State	Area Path	Tags	Comm
139	Implement payment gateway	Rithika R	● New	Banking_Application		
142	Set up alert system	Rithika R	● New	Banking_Application		
144	Test alert delivery	Rithika R	● New	Banking_Application		
137	Generate statement PDF	Rithika R	● New	Banking_Application		
141	Design Beneficiary form	Rithika R	● New	Banking_Application		
138	Add download option	Rithika R	● New	Banking_Application		
140	Confirm transaction	Rithika R	● New	Banking_Application		
143	Integrate email service	Rithika R	● New	Banking_Application		
90	UI-Design Login Form	Rithika R	● New	Banking_Application		
94	UI- Design Reset Form	Rithika R	● New	Banking_Application		
92	API Layer-Validate Credentials	Rithika R	● New	Banking_Application		
91	API Layer-Develop Login API	Rithika R	● New	Banking_Application		

Work items | + New Work Item ⌄ | ↱ Open filtered view in Queries | ✐ Column Options | ↥ Import Work Items | 🗑 Recycle Bin

Filter by keyword   Task ⌄   Assigned to ⌄   States ⌄   Area ⌄   Tags ⌄   ✕

	ID	Title		Assigned To	State	Area Path	Tags	Comn
	92	📄 API Layer-Validate Credentials		RR Rithika R	● New	Banking_Application		
	91	📄 API Layer-Develop Login API		RR Rithika R	● New	Banking_Application		
	95	📄 DB Layer- Store Updated Password		RR Rithika R	● New	Banking_Application		
	118	📄 UI-Design Transactions Page		RR Rithika R	● New	Banking_Application		
	96	📄 API Layer-Develop Reset API		RR Rithika R	● New	Banking_Application		
○	97	📄 API Layer-Validate OTP	⋯	RR Rithika R	● New	Banking_Application		
	116	📄 DB Layer-Update Account Balances		RR Rithika R	● New	Banking_Application		
	108	📄 API Layer-Validate Inputs		RR Rithika R	● New	Banking_Application		
	119	📄 API Layer-Develop History API		RR Rithika R	● New	Banking_Application		
	109	📄 DB Layer-Store Account Info		RR Rithika R	● New	Banking_Application		
	120	📄 DB Layer-Fetch Transactions		RR Rithika R	● New	Banking_Application		

	ID	Title		Assigned To	State	Area Path
	109	📄 DB Layer-Store Account Info		RR Rithika R	● New	Banking_Application
	120	📄 DB Layer-Fetch Transactions		RR Rithika R	● New	Banking_Application
	123	📄 API Layer-Apply SSL/TLS		RR Rithika R	● New	Banking_Application
○	122	📄 DB Layer-Encrypt Stored Data	⋯	RR Rithika R	● New	Banking_Application
	88	📄 API Layer-Admin Approval Flow		RR Rithika R	● New	Banking_Application
	87	📄 DB Layer- Store User Details		RR Rithika R	● New	Banking_Application
	86	📄 API Layer-Create Registration API		RR Rithika R	● New	Banking_Application
	85	📄 UI - Design Registration Form		RR Rithika R	● New	Banking_Application
	126	📄 DB Layer-Store Logs Securely		RR Rithika R	● New	Banking_Application
	112	📄 DB Layer-Save Balance Info		RR Rithika R	● New	Banking_Application

Board:

Backlog:

	Order	Work Item Type	Title	State	Story...	Value Area	Iteration Path	Tags
	1	User Story	User Login	Active		Business	Banking_Application\Iteration 1	
	2	User Story	Change Password	Resolved		Business	Banking_Application\Iteration 1	
	3	User Story	Download Statements	New		Business	Banking_Application\Iteration 1	
	4	User Story	Add beneficiary	New		Business	Banking_Application\Iteration 1	
	5	User Story	View Transactions	New		Business	Banking_Application\Iteration 1	
	6	User Story	Log Activities	New		Business	Banking_Application\Iteration 1	
	7	User Story	Encrypt Data	Resolved		Business	Banking_Application\Iteration 1	
	8	User Story	Fund Transfer	Active		Business	Banking_Application\Iteration 1	
	9	User Story	User Sign-Up	Resolved		Business	Banking_Application	
	10	User Story	Admin Approval	New		Business	Banking_Application	
	11	User Story	Open Account	Active		Business	Banking_Application\Iteration 1	
	12	User Story	View Balance	Active		Business	Banking_Application\Iteration 1	
	13	User Story	SMS/Email Alerts	Active		Business	Banking_Application\Iteration 1	

PART 2 - Azure DevOps Git Setup

1. Create a Git Repo Azure DevOps → Repos → New Repository → Banking-Application
2. Clone the repo locally or use portal
3. Add a project structure

PART 3 - Configure CI/CD Pipeline:

azure-pipeline.yml:

trigger:

- main

pool:

  vmImage: 'ubuntu-latest'

steps:

- task: UsePythonVersion@0

  inputs:

    versionSpec: '3.x'

  displayName: 'Use Python 3'

- script: |

    cd frontend

    python -m venv venv

    source venv/bin/activate

```
  pip install -r requirements.txt
displayName: 'Install Dependencies'
- script: |
  cd frontend
  python app.py &
  sleep 5  # Let app start for a while (simulate app running)
  curl http://localhost:5000
displayName: 'Run App and Test Endpoint'
```

1. Go to your **Azure DevOps project**

2. Click **Pipelines → Create Pipeline**

3. Choose:

   o **Azure Repos Git**

   o Select your repository

   o **"Existing Azure Pipelines YAML file"**

4. Choose:

   o Branch: main

   o Path: /azure-pipelines.yml

5. Click **Continue**, then **Run Pipeline**

Banking_Application +

Overview
Boards
Repos
Pipelines
 Pipelines
 Environments
 Library
Test Plans
Artifacts

Project settings «

🕐 **#20250707.1 • Added app.py**
🏗 Banking_Application

Cancel

Summary   Code Coverage

Manually run by RR Rithika R   View 9 changes

Repository and version   Time started and elapsed   Related   Tests and coverage
◈ Banking_Application   🗓 Just now   🔖 0 work items   👤 Get started
⌥ main   ◇ 2f023c56   -   📦 0 artifacts

Jobs

Name	Status	Duration
🕐 Job	Queued	

Banking_Application +

Overview
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Project settings «

❌ **#20250707.1 • Added app.py**
🏗 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 RR Rithika R   View 9 changes

Repository and version   Time started and elapsed   Related   Tests and coverage
◈ Banking_Application   🗓 Just now   🔖 0 work items   👤 Get started
⌥ main   ◇ 2f023c56   🕐 <1s   📦 0 artifacts

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/azpipelines-parall...
     20250707.1

View documentation for troubleshooting failed runs