

# Azure DevOps Participant Assignment

## Breakdown a Banking Application into: Epics, Features, User Stories, Tasks

### Epic 1: User Management

1. **Feature: User Registration**
  - **User Story:** Sign up with email & password.
  - **Tasks:**
    1. UI – Registration form
    2. API – Handle registration request
    3. DB – Insert new-user record
    4. Validation – Check format & duplicates
2. **Feature: User Authentication**
  - **User Story:** Log in with credentials.
  - **Tasks:**
    1. UI – Login form
    2. API – Verify credentials & issue token
    3. Session – Store/refresh token
    4. Error Handling – Invalid-login message
3. **Feature: Password Reset**
  - **User Story:** Reset forgotten password.
  - **Tasks:**
    1. UI – “Forgot Password” link & form
    2. Email – Send reset token
    3. API – Validate token & update password
4. **Feature: Admin Approval (optional)**
  - **User Story:** Approve pending registrations.
  - **Tasks:**
    1. UI – Admin approval dashboard
    2. API – Approve / reject users
    3. DB – Update user status
    4. Notify – Email decision to user

### Epic 2: Account Services

1. **Feature: Account Creation**
  - **User Story:** Open a bank account.
  - **Tasks:**
    1. UI – Account-opening form
    2. Logic – Generate unique account #
    3. DB – Insert account details
    4. Confirmation – Show success screen

2. **Feature: View Account Balance**
  - **User Story:** See current balance after login.
  - **Tasks:**
    1. API – Fetch real-time balance
    2. UI – Balance widget on dashboard
    3. Security – Token/role validation
    4. Formatter – Display in local currency

### **Epic 3: Fund Transfer**

1. **Feature: Initiate Fund Transfer**
  - **User Story:** Transfer money using account number.
  - **Tasks:**
    1. UI – Transfer form (to, amount)
    2. API – Debit sender / credit receiver
    3. DB – Record transaction rows
    4. UI – Show confirmation & ref ID
2. **Feature: Validate Transfer**
  - **User Story:** Get alert if transfer fails.
  - **Tasks:**
    1. Logic – Check balance & recipient validity
    2. UI – Friendly failure message
    3. DB – Rollback / log failure
    4. Audit – Write to error log

### **Epic 4: Transaction History**

1. **Feature: View Past Transactions**
  - **User Story:** Review all previous transactions.
  - **Tasks:**
    1. API – Pull transaction list
    2. UI – Table with date, type, amount
    3. Pagination – Lazy-load pages
    4. Sort – Default newest-first
2. **Feature: Filter by Date/Amount**
  - **User Story:** Filter transactions by date or amount.
  - **Tasks:**
    1. UI – Date-range & amount sliders
    2. API – Accept filter params
    3. Query – Optimized DB search
    4. QA – Test edge-case combos

## Epic 5: Security & Compliance

### 1. Feature: Encrypt Sensitive Data

- **User Story:** Encrypt user and account data.

- **Tasks:**

1. Hash – Password hashing
2. Encrypt – Account numbers
3. Key Mgmt – Secure key storage
4. Regression – Verify encryption paths

### 2. Feature: Audit User Actions

- **User Story:** View audit trail of user activities.

- **Tasks:**

1. Capture – Log login, transfers, resets
2. DB – Write to audit table
3. UI – Admin-only audit viewer
4. ACL – Restrict read access

## EPIC:

The screenshot displays the Azure DevOps web interface for a project named 'Banking Application'. The left sidebar shows the navigation menu with 'Work items' selected. The main area shows a list of work items under the 'Security & Compliance' epic. The work items are listed in a table with columns for ID, Title, Assigned To, State, Area Path, and Tags.

ID	Title	Assigned To	State	Area Path	Tags
43	Security & Compliance	Unassigned	New	Banking Application	
42	Transaction History	Unassigned	New	Banking Application	
41	Fund Transfer	Unassigned	New	Banking Application	
40	Account Services	Unassigned	New	Banking Application	
39	User Management	Unassigned	New	Banking Application	

## FEATURES :

Azure DevOps hari07003 / Banking Application / Boards / Work items

Search

Banking Application

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

Project settings

Work items

Recently updated

+ New Work Item

Open filtered view in Queries

Column Options

Import Work Items

Recycle Bin

Filter by keyword

Epic (+1)

Assigned to

States

Area

Tags

ID	Title	Assigned To	State	Area Path	Tags
54	Audit User Actions	Unassigned	New	Banking Application	
53	Encrypt Sensitive Data	Unassigned	New	Banking Application	
52	Filter by Date/Amount	Unassigned	New	Banking Application	
51	View Past Transactions	Unassigned	New	Banking Application	
50	Validate Transfer	Unassigned	New	Banking Application	
49	Initiate Fund Transfer	Unassigned	New	Banking Application	
48	View Account Balance	Unassigned	New	Banking Application	
47	Account Creation	Unassigned	New	Banking Application	
46	Password Reset	Unassigned	New	Banking Application	
45	User Authentication	Unassigned	New	Banking Application	
44	User Registration	Unassigned	New	Banking Application	
43	Security & Compliance	Unassigned	New	Banking Application	

BOS - WSH Video highlight

Search

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## USER STORY:

Banking Application

Overview

Boards

Work items

Boards

Backlogs

Sprints

Queries

Delivery Plans

Analytics views

Repos

Pipelines

Test Plans

Artifacts

Project settings

Work items

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	Tags
56	Admin Approval of Registrations	harisha srinivasan	New	Banking Application	
55	As a new user, I want to register using email and password	harisha srinivasan	New	Banking Application	
63	View All Past Transactions	harisha srinivasan	Resolved	Banking Application	
61	Transfer Funds to Another Account	harisha srinivasan	Resolved	Banking Application	
65	Encrypt User Data	harisha srinivasan	Resolved	Banking Application	
59	Create a Bank Account	harisha srinivasan	Resolved	Banking Application	
62	Alert on Transfer Failure	harisha srinivasan	Resolved	Banking Application	
64	Filter Transactions by Date or Amount	harisha srinivasan	Active	Banking Application	
58	Reset Forgotten Password	harisha srinivasan	Active	Banking Application	
57	Log in with Credentials	harisha srinivasan	Active	Banking Application	

BOS - WSH Video highlight

Search

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11:59 AM 7/7/2025

## TASK :

The screenshot shows the Azure DevOps interface for the 'Banking Application' project. The left sidebar contains navigation options: Overview, Boards, Work items (selected), Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Artifacts. The main area displays a table of 'Work items' under the 'Recently updated' filter. The table has columns for ID, Title, Assigned To, State, Area Path, and Tags. The work items listed are:

ID	Title	Assigned To	State	Area Path	Tags
81	History API	harisha srinivasan	New	Banking Application	
82	UI Table	harisha srinivasan	New	Banking Application	
84	Test Date/Amount Ranges	harisha srinivasan	New	Banking Application	
80	Transfer Form UI	Unassigned	New	Banking Application	
79	Secure Access	Unassigned	New	Banking Application	
72	Status Update	Unassigned	New	Banking Application	
71	Approval Logic	Unassigned	New	Banking Application	
69	Add to DB	Unassigned	New	Banking Application	

The bottom of the screen shows a Windows taskbar with various application icons and system information: 88°F, Mostly sunny, 11:10 AM, 7/7/2025.

## BACKLOGS :

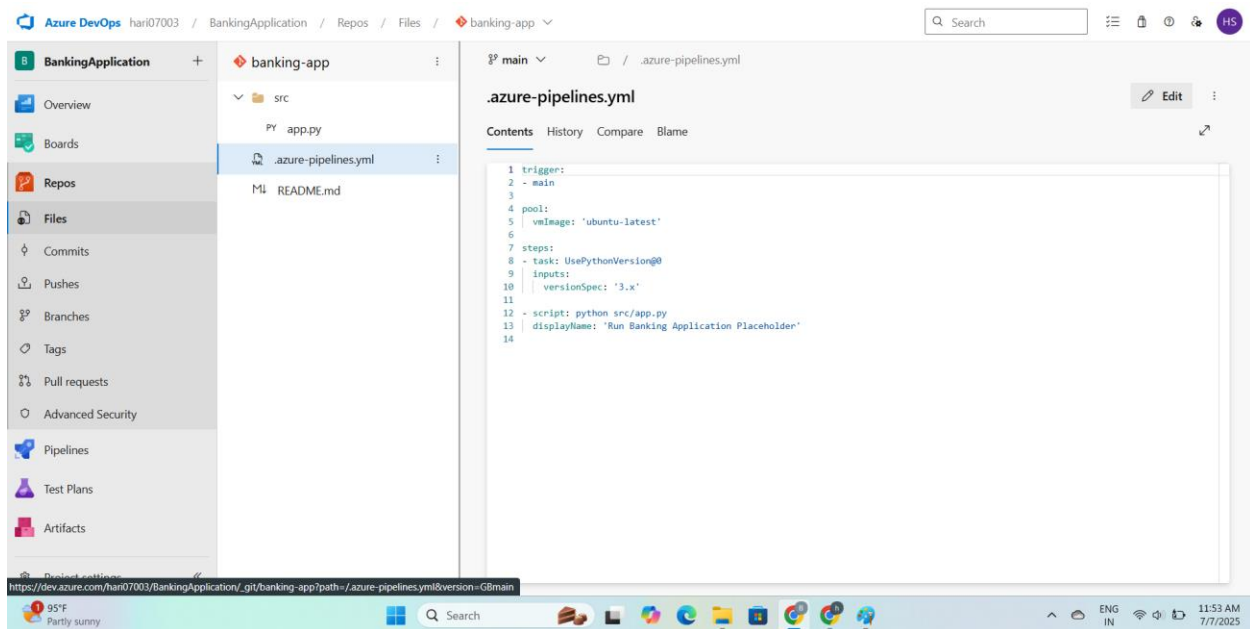
The screenshot shows the Azure DevOps interface for the 'Banking Application Team' project. The left sidebar is the same as the previous screenshot. The main area displays the 'Backlogs' view, showing a Kanban board with columns for New, Active, Resolved, and Closed. Each column contains a list of work items with their titles, assigned users, and progress indicators. The work items are:

- New:** 55 As a new user, I want to register using email and password (New, harisha srinivasan, 2/3 Story Points). 56 Admin Approval of Registrations (New, harisha srinivasan, 1/3 Story Points).
- Active:** 58 Reset Forgotten Password (Active, harisha srinivasan, 2/2 Story Points). 57 Log in with Credentials (Active, harisha srinivasan, 3/3 Story Points).
- Resolved:** 61 Transfer Funds to Another Account (Resolved, harisha srinivasan, 0/1 Story Points). 63 View All Past Transactions (Resolved, harisha srinivasan, 0/2 Story Points). 59 Create a Bank Account (Resolved, harisha srinivasan).
- Closed:** 66 Log User Actions (Closed). 60 As a user, I want to view my current account balance after login (Closed, harisha srinivasan, 1/2 Story Points).

The bottom of the screen shows a Windows taskbar with various application icons and system information: 88°F, Mostly sunny, 11:10 AM, 7/7/2025.

## PART 2 - Azure DevOps Git Setup

### GIT REPO:



## PART 3 - Configure CI/CD Pipeline:

