

# ▯ Azure DevOps Participant Assignment

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## Objective:

Participants will:

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.
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## ▯ Banking Application Scenario

You are part of a team building a simple **Banking Application** that provides:

▯ Account Creation ▯ User Login ▯ View Account Balance ▯ Transfer Funds ▯ Transaction History

This is a **hypothetical project**, no actual development required beyond structure.

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## PART 1 - Work Item Breakdown

### ▯ 1. Create Epics

Example Epics:

- User Management
  - Account Services
  - Fund Transfer
  - Transaction History
  - Security & Compliance
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### ▯ 2. Under Each Epic, Create Features

Example for 'User Management' Epic:

- User Registration
  - User Authentication
  - Password Reset
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### ▯ 3. Break Features into User Stories

Example for 'User Registration' Feature:

- As a new user, I want to register using email and password.
  - As an admin, I want to approve user registrations (Optional).
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## 4. Break User Stories into Tasks

Example Tasks for Registration User Story:

- Design registration form (Frontend)
  - Create API for registration (Backend)
  - Add user details to database
  - Validate user inputs
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## 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")
```

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## 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.

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## PART 4 - Submission Checklist

Participants must submit:

▯ Screenshot of **Epics, Features, User Stories, and Tasks** in Azure Boards ▯ Screenshot of Git Repository created in Azure DevOps with any basic project structure ▯ Screenshot of Working Azure Pipeline Creation