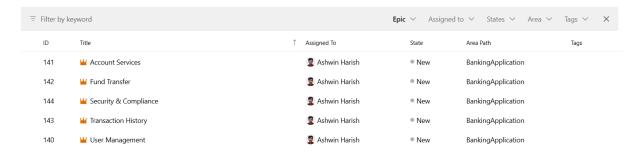
# **Azure DevOps Assignment**

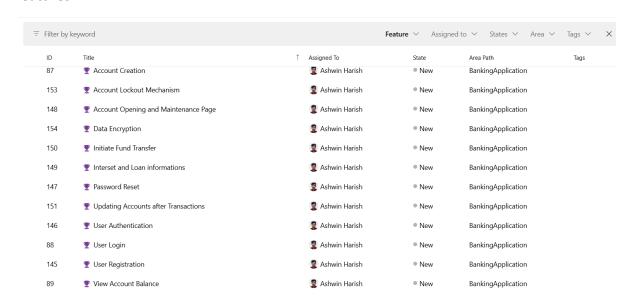
Ashwin Harish P

### Part 1 - Work Item Breakdown

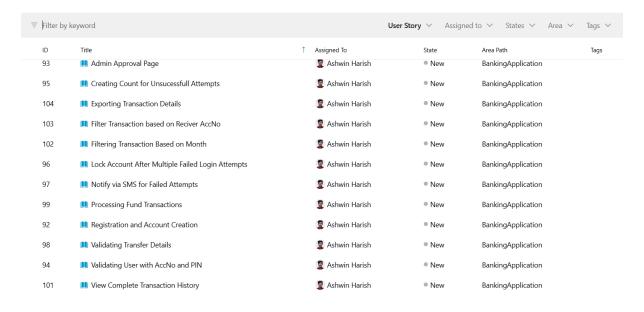
## **Epics:**



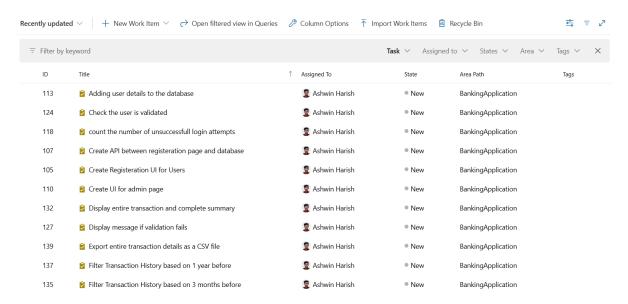
#### **Features:**

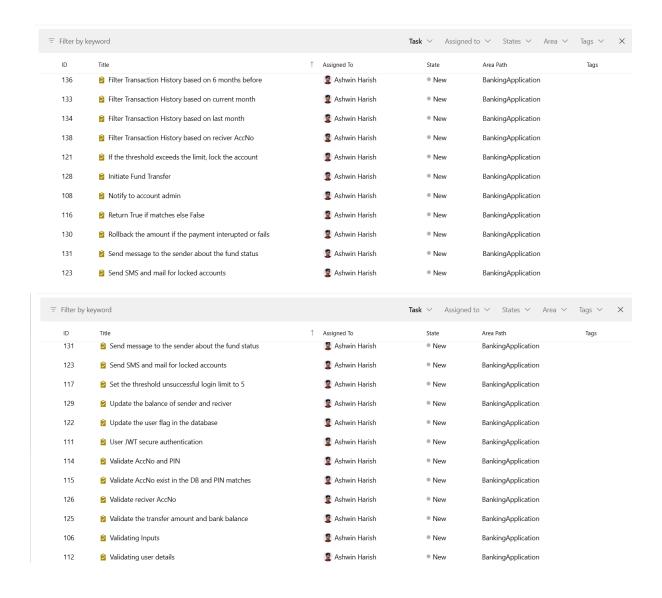


#### **User Stories:**



#### Tasks:





## Part 2 - Azure DevOps Git Setup

#### **Cloning Repository**

```
PS C:\Users\My Pc\Desktop\banking-app> git clone git@ssh.dev.azure.com:v3/ashwinharishp/BankingApplication/BankingApplication
Cloning into 'BankingApplication'...
remote: Azure Repos
remote: Found 40 objects to send. (37 ms)
Receiving objects: 100% (40/40), 5.35 KiB | 195.00 KiB/s, done.
Resolving deltas: 100% (12/12), done.
PS C:\Users\My Pc\Desktop\banking-app> [
```

#### Creating a new directory

## Adding Readme.md file

```
banking-app > \bigcirc Readme.md > \equiv #### This is Readme.md file for Banking application
             #### This is Readme.md file for Banking application
              This application holds
             1. Account Creation
          2. User Login
     5 3. View Account Balance
    6 4. Transfer Funds
             5. Transaction History
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\My Pc\Desktop\banking-app> git commit -m "Added Readme.md file" [master (root-commit) 6ce3c60] Added Readme.md file 2 files changed, 8 insertions(+) create mode 160000 BankingApplication
create mode 100000 banking-app/Readme.md
PS C:\Users\My Pc\Desktop\banking-app> git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'ssh.dev.azure.com:v3/ash
                                                                                         azure.com:v3/ashwinharishp/BankingApplication/BankingApplication'
PS C:\Users\My Pc\Desktop\banking-app> git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Counting objects: 100% (4/4), done.

Delta compression using up to 16 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 445 bytes | 445.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Validating commits... (1/1) done (1 ms)

remote: Storing packfile... done (77 ms)

remote: Storing index... done (47 ms)

remote: Updating refs... done (146 ms)

To ssh.dev.azure.com:v3/ashwinharishp/BankingApplication/BankingApplication

* [new branch] master -> master
* [new branch] master -> master
PS C:\Users\My Pc\Desktop\banking-app>
```

#### Adding app.py file

```
PS C:\Users\My Pc\Desktop\banking-app> git commit -m "Added app.py file"

[master 2dd5892] Added app.py file

1 file changed, 31 insertions(+)
create mode 100644 banking-app/app.py

PS C:\Users\My Pc\Desktop\banking-app> git push origin master
Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), 680 bytes | 340.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Analyzing objects... (4/4) (55 ms)
remote: Validating commits... (1/1) done (13 ms)
remote: Storing packfile... done (67 ms)
remote: Storing index... done (36 ms)
remote: Updating refs... done (163 ms)
To ssh.dev.azure.com:v3/ashwinharishp/BankingApplication/BankingApplication
6ce3c60..2dd5892 master -> master
PS C:\Users\My Pc\Desktop\banking-app>
```

## Adding azure-pipelines.yml file

```
TERMINAL
PROBLEMS
          OUTPUT
                   DEBUG CONSOLE
PS C:\Users\My Pc\Desktop\banking-app> git add .
PS C:\Users\My Pc\Desktop\banking-app> git commit -m "Added .yml file"
[master c3139b4] Added .yml file
 1 file changed, 16 insertions(+)
create mode 100644 banking-app/azure-pipelines.yml
PS C:\Users\My Pc\Desktop\banking-app> git push origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 596 bytes | 596.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Analyzing objects... (4/4) (94 ms)
remote: Validating commits... (1/1) done (0 ms)
remote: Storing packfile... done (85 ms)
remote: Storing index... done (46 ms)
remote: Updating refs... done (136 ms)
To ssh.dev.azure.com:v3/ashwinharishp/BankingApplication/BankingApplication
   2dd5892..c3139b4 master -> master
PS C:\Users\My Pc\Desktop\banking-app>
```

#### **Directory Structure**

Name ↑	Last change	Commits
abanking-app	Just now	c3139b44 Added .yml file AshwinHarishP

Name ↑	Last change	Commits
PY app.py	3m ago	2dd5892a Added app.py file AshwinHarishP
azure-pipelines.yml	Just now	c3139b44 Added .yml file AshwinHarishP
MJ Readme.md	5m ago	6ce3c605 Added Readme.md file AshwinHarishP

#### This is Readme.md file for Banking application

This application holds

- 1. Account Creation
- 2. User Login
- 3. View Account Balance
- 4. Transfer Funds
- 5. Transaction History

#### Readme.md code

- 1 #### This is Readme.md file for Banking application
- 2 This application holds
- 3 1. Account Creation
- 4 2. User Login
- 5 3. View Account Balance
- 6 4. Transfer Funds
- 7 5. Transaction History

#### app.py code

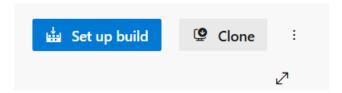
```
1 def main():
       while True:
           print("===== Banking Application =====")
3
           print("1. Account Creation")
4
 5
           print("2. User Login")
6
           print("3. View Account Balance")
           print("4. Transfer Funds")
           print("5. Transaction History")
8
           print("6. Exit")
9
10
11
           choice = input("Select an option (1-6): ")
12
           if choice == "1":
13
14
               create_account()
15
           elif choice == "2":
16
              login()
           elif choice == "3":
17
18
              view_balance()
19
           elif choice == "4":
20
              transfer_funds()
21
           elif choice == "5":
22
              view_transaction_history()
23
           elif choice == "6":
24
               print("Exiting application")
25
               break
           else:
26
27
               print("Invalid option\n")
```

## azure-pipelines.yml code

```
1 pool:
2 vmImage: ubuntu-latest
3
4 jobs:
5 - job: run_banking_application
6 displayName: Run Banking Application
    steps:
9
      - task: UsePythonVersion@0
       inputs:
10
        versionSpec: '3.10'
11
      displayName: "Set up Python 3.10"
12
13
      - script:
14
        python app.py
15
16
        displayName: "Run Banking Application Script"
```

# Part 3 - Configure CI/CD Pipeline

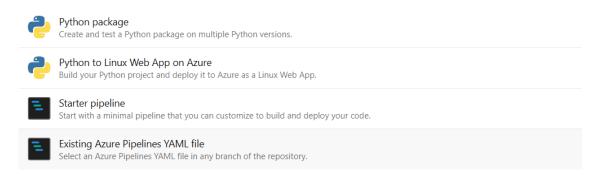
Step1: Click Set up Build



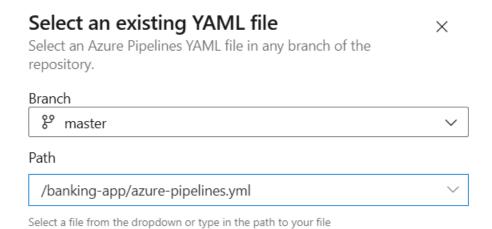
Step2: Select Existing Azure Pipelines YAML File

New pipeline

# **Configure your pipeline**



Step 3: Choose path and click continue



Step 4: Click Run



## It will run the pipeline

