

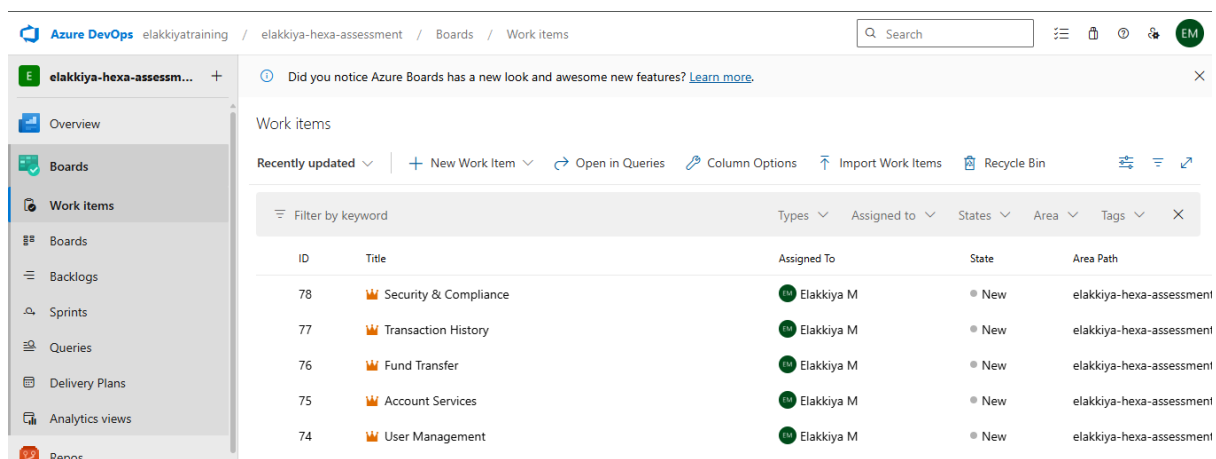
Azure DevOps Assessment 1

Banking Application

PART 1 - Work Item Breakdown

1. Create Epics

- User Management
- Account Services
- Fund Transfer
- Transaction History
- Security & Compliance



ID	Title	Assigned To	State	Area Path
78	Security & Compliance	Elakkiya M	New	elakkiya-hexa-assessment
77	Transaction History	Elakkiya M	New	elakkiya-hexa-assessment
76	Fund Transfer	Elakkiya M	New	elakkiya-hexa-assessment
75	Account Services	Elakkiya M	New	elakkiya-hexa-assessment
74	User Management	Elakkiya M	New	elakkiya-hexa-assessment

2. Under Each Epic, Create Features

Features under User Management:

ID	Title	Assigned To	State	Area Path
81	Password Reset	Elakkiya M	New	elakkiya-hexa-assessment
80	User Authentication (Login)	Elakkiya M	New	elakkiya-hexa-assessment
79	User Registration	Elakkiya M	New	elakkiya-hexa-assessment

Features under Account Services:

ID	Title	Assigned To	State	Area Path
83	View Account Balance	Elakkiya M	New	elakkiya-hexa-assessme
82	Account Creation	Elakkiya M	New	elakkiya-hexa-assessme

Features under Fund Transfer:

ID	Title	Assigned To	State	Area Path
86	Scheduled Transfers	Elakkiya M	New	elakkiya-hexa-assessme
85	Other Bank Transfer	Elakkiya M	New	elakkiya-hexa-assessme
84	Within Bank Transfer	Elakkiya M	New	elakkiya-hexa-assessme

Features under Transaction History:

ID	Title	Assigned To	State	Area Path
89	Search & Filter Transactions	Elakkiya M	New	elakkiya-hexa-assessme
88	Export/Download Statement	Elakkiya M	New	elakkiya-hexa-assessme
87	View Transaction History	Elakkiya M	New	elakkiya-hexa-assessme

Features under Security & Compliance:

ID	Title	Assigned To	State	Area Path
92	Multi-Factor Authentication	Elakkiya M	New	elakkiya-hexa-assessment
91	Audit Logging	Elakkiya M	New	elakkiya-hexa-assessment
90	Data encryption	Elakkiya M	New	elakkiya-hexa-assessment

3. Break Features into User Stories

User stories under User Registration:

ID	Title	Assigned To	State	Area Path
94	Admin Approval	Elakkiya M	New	elakkiya-hexa-assessment
93	Registration Form	Elakkiya M	New	elakkiya-hexa-assessment

User stories under User Authentication:

Recently created ▾ + New Work Item ▾ ↷ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ Area ▾				
ID	Title	Assigned To	State	Area Path
96	Session Management	Elakkiya M	New	elakkiya-hexa-assessment
95	User Login	Elakkiya M	New	elakkiya-hexa-assessment

User stories under Password Reset:

Recently created ▾ + New Work Item ▾ ↷ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ Area ▾				
ID	Title	Assigned To	State	Area Path
98	Security Questions	Elakkiya M	New	elakkiya-hexa-assessment
97	Password Reset via Email	Elakkiya M	New	elakkiya-hexa-assessment

User stories under Account Creation:

Filter by keyword				
Types ▾ Assigned to ▾ States ▾ Area ▾				
ID	Title	Assigned To	State	Area Path
100	Current Account Creation	Elakkiya M	New	elakkiya-hexa-assessment
99	Savings Account Creation	Elakkiya M	New	elakkiya-hexa-assessment

User stories under View Account Balance:

Recently created ▾ + New Work Item ▾ ↷ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ Area ▾				
ID	Title	Assigned To	State	Area Path
102	Mini Statement	Elakkiya M	New	elakkiya-hexa-assessment
101	Balance Inquiry	Elakkiya M	New	elakkiya-hexa-assessment

User stories under Within Bank Transfer, Other Bank Transfer, Scheduled Transfers:

ID	Title	Assigned To	State	Area Path
106	External Fund Transfer	Elakkiya M	New	elakkiya-hexa-assessment
105	Auto Transfer Setup	Elakkiya M	New	elakkiya-hexa-assessment
103	Internal Fund Transfer	Elakkiya M	New	elakkiya-hexa-assessment

User stories under View Transaction History, Export/Download Statement:

ID	Title	Assigned To	State	Area Path
108	Statement Download	Elakkiya M	New	elakkiya-hexa-assessment
107	Recent Transactions	Elakkiya M	New	elakkiya-hexa-assessment

User stories under Search & Filter Transactions:

ID	Title	Assigned To	State	Area Path
111	Filter by Type	Elakkiya M	New	elakkiya-hexa-assessment
110	Filter by Amount	Elakkiya M	New	elakkiya-hexa-assessment
109	Filter by Date	Elakkiya M	New	elakkiya-hexa-assessment

User stories under Data Encryption, Audit Logging:

Recently created + New Work Item Open in Queries Column Options Import Work Items Recycle Bin				
Filter by keyword Types Assigned to States A				
ID	Title	Assigned To	State	Area Path
113	Activity Logs	Elakkiya M	New	elakkiya-hexa-assessment
112	Secure Data Storage	Elakkiya M	New	elakkiya-hexa-assessment

User stories under Multi-Factor Authentication:

Recently created + New Work Item Open in Queries Column Options Import Work Items Recycle Bin				
Filter by keyword Types Assigned to States A				
ID	Title	Assigned To	State	Area Path
115	Email/SMS Verification	Elakkiya M	New	elakkiya-hexa-assessment
114	OTP Login	Elakkiya M	New	elakkiya-hexa-assessment

4. Break User Stories into Tasks

Tasks under the User Story – Registration Form:

Recently created + New Work Item Open in Queries Column Options Import Work Items Recycle Bin				
Filter by keyword Types Assigned to States A				
ID	Title	Assigned To	State	Area Path
119	Input Validation	Elakkiya M	New	elakkiya-hexa-assessment
118	DB Insert	Elakkiya M	New	elakkiya-hexa-assessment
117	API Development	Elakkiya M	New	elakkiya-hexa-assessment
116	UI Design	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Admin Approval

Recently created ▾ + New Work Item ▾ ↗ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ A				
ID	Title	Assigned To	State	Area Path
122	DB Update	Elakkiya M	New	elakkiya-hexa-assessment
121	Workflow Logic	Elakkiya M	New	elakkiya-hexa-assessment
120	Approval Page	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – User Login

Recently created ▾ + New Work Item ▾ ↗ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾				
ID	Title	Assigned To	State	Area Path
126	Login Status	Elakkiya M	New	elakkiya-hexa-assessment
125	Credential Validation	Elakkiya M	New	elakkiya-hexa-assessment
124	Login API	Elakkiya M	New	elakkiya-hexa-assessment
123	Login Form	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Session Management

Recently created ▾ + New Work Item ▾ ↗ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ A				
ID	Title	Assigned To	State	Area Path
129	Session Validation	Elakkiya M	New	elakkiya-hexa-assessment
128	Session Expiry	Elakkiya M	New	elakkiya-hexa-assessment
127	Session Token	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Password Reset via Email

Recently created ▾ + New Work Item ▾ ↗ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ Are				
ID	Title	Assigned To	State	Area Path
132	Password Update	Elakkiya M	New	elakkiya-hexa-assessment
131	Email Link	Elakkiya M	New	elakkiya-hexa-assessment
130	Request Form	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Security Questions

Recently created ▾ + New Work Item ▾ ↗ Open in Queries 🔗 Column Options ⬆ Import Work Items 🗑 Recycle Bin				
Filter by keyword				
Types ▾ Assigned to ▾ States ▾ A				
ID	Title	Assigned To	State	Area Path
134	Question Validation	Elakkiya M	New	elakkiya-hexa-assessment
133	Question Setup	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Savings Account Creation

Filter by keyword

Types

Assigned to

States

ID	Title		Assigned To	State	Area Path
<div><div></div><div>137</div></div>	<div><div></div><div>DB Storage</div></div>	<div>...</div>	<div><div></div><div>Elakkiya M</div></div>	<div><div></div><div>New</div></div>	<div>elakkiya-hexa-assessment</div>
<div><div></div><div>136</div></div>	<div><div></div><div>API Development</div></div>		<div><div></div><div>Elakkiya M</div></div>	<div><div></div><div>New</div></div>	<div>elakkiya-hexa-assessment</div>
<div><div></div><div>135</div></div>	<div><div></div><div>Form Design</div></div>		<div><div></div><div>Elakkiya M</div></div>	<div><div></div><div>New</div></div>	<div>elakkiya-hexa-assessment</div>

Tasks under the User Story – Current Account Creation

Recently created

+ New Work Item

Open in Queries

Column Options

Import Work Items

Recycle Bin

Filter by keyword

Types

Assigned to

States

Area Path

ID	Title		Assigned To	State	Area Path
<div>✓</div> 140	<div> DB Storage</div>	<div>...</div>	<div> Elakkiya M</div>	<div> New</div>	elakkiya-hexa-assessment
139	<div> API Development</div>		<div> Elakkiya M</div>	<div> New</div>	elakkiya-hexa-assessment
138	<div> Form Design</div>		<div> Elakkiya M</div>	<div> New</div>	elakkiya-hexa-assessment

Tasks under the User Story – Balance Inquiry

Recently created

+ New Work Item

Open in Queries

Column Options

Import Work Items

Recycle Bin

Filter by keyword

Types

Assigned to

States




ID	Title		Assigned To	State	Area Path
143	UI Display	...	Elakkiya M	New	elakkiya-hexa-assessment
142	DB Fetch		Elakkiya M	New	elakkiya-hexa-assessment
141	Balance API		Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Mini Statement

Recently created ▾ | [+ New Work Item ▾](#) | [↻ Open in Queries](#) | [🔗 Column Options](#) | [↕ Import Work Items](#) | [🗑 Recycle Bin](#)

☰ Filter by keyword

Types ▾ | Assigned to ▾ | States ▾

ID	Title		Assigned To	State	Area Path
✓ 146	📄 UI Display	⋮	 Elakkiya M	● New	elakkiya-hexa-assessment
145	📄 DB Fetch		 Elakkiya M	● New	elakkiya-hexa-assessment
144	📄 Statement API		 Elakkiya M	● New	elakkiya-hexa-assessment

Tasks under the User Story – Internal Fund Transfer

ID	Title		Assigned To	State	Area Path	
✓ 150	Confirmation UI	...	Elakkiya M	New	elakkiya-hexa-assessment	
149	DB Update		Elakkiya M	New	elakkiya-hexa-assessment	
148	Transfer API		Elakkiya M	New	elakkiya-hexa-assessment	
147	Transfer Form		Elakkiya M	New	elakkiya-hexa-assessment	

Tasks under the User Story – External Fund Transfer

Recently created ▾ | [+ New Work Item ▾](#) [↪ Open in Queries](#) [🔗 Column Options](#) [⬆ Import Work Items](#) [🗑 Recycle Bin](#)

Filter by keyword					Types ▾	Assigned to ▾	States ▾
ID	Title		Assigned To	State	Area Path		
✓ 154	📄 Status Display	...	👤 Elakkiya M	● New	elakkiya-hexa-assessment		
153	📄 Amount Deduction		👤 Elakkiya M	● New	elakkiya-hexa-assessment		
152	📄 Account Validation		👤 Elakkiya M	● New	elakkiya-hexa-assessment		
151	📄 External API Integration		👤 Elakkiya M	● New	elakkiya-hexa-assessment		

Tasks under the User Story – Auto Transfer Setup

Recently created ▾ | [+ New Work Item ▾](#) [↪ Open in Queries](#) [🔗 Column Options](#) [⬆ Import Work Items](#) [🗑 Recycle Bin](#)

Filter by keyword					Types ▾	Assigned to ▾	States ▾
ID	Title		Assigned To	State	Area Path		
✓ 157	📄 Notification	...	👤 Elakkiya M	● New	elakkiya-hexa-assessment		
156	📄 Scheduler Logic		👤 Elakkiya M	● New	elakkiya-hexa-assessment		
155	📄 Schedule Form		👤 Elakkiya M	● New	elakkiya-hexa-assessment		

Tasks under the User Story – Recent Transactions

Work items

Recently created ▾ | [+ New Work Item ▾](#) [↪ Open in Queries](#) [🔗 Column Options](#) [⬆ Import Work Items](#) [🗑 Recycle Bin](#)

Filter by keyword					Types ▾	Assigned to ▾	States ▾	Area Path
ID	Title		Assigned To	State				
✓ 160	📄 UI Display	...	👤 Elakkiya M	● New	elakkiya-hexa-assessment			
159	📄 DB Fetch		👤 Elakkiya M	● New	elakkiya-hexa-assessment			
158	📄 History API		👤 Elakkiya M	● New	elakkiya-hexa-assessment			

Tasks under the User Story – Statement Download

Recently created ▾ | [+ New Work Item ▾](#) [↪ Open in Queries](#) [🔗 Column Options](#) [⬆ Import Work Items](#) [🗑 Recycle Bin](#)

Filter by keyword					Types ▾	Assigned to ▾	States ▾	Area Path
ID	Title		Assigned To	State				
✓ 162	📄 Download Option	...	👤 Elakkiya M	● New	elakkiya-hexa-assessment			
161	📄 Report Generation		👤 Elakkiya M	● New	elakkiya-hexa-assessment			

Tasks under the User Story – Filter by Date, Amount, Type

Filter by keyword					Types	Assigned to	States	A
ID	Title		Assigned To	State	Area Path			
✓ 165	Type Filter	...	Elakkiya M	New	elakkiya-hexa-assessment			
164	Amount Filter		Elakkiya M	New	elakkiya-hexa-assessment			
163	Date Filter Implementation		Elakkiya M	New	elakkiya-hexa-assessment			

Tasks under the User Story – Secure Data Storage

Recently created ▾ | + New Work Item ▾ | ➔ Open in Queries | 🔗 Column Options | ⬆ Import Work Items | 🗑 Recycle Bin

☰ Filter by keyword

Types ▾ | Assigned to ▾ | States ▾ | A

ID	Title		Assigned To	State	Area Path
✓ 167	🔒 Field Encryption	⋮	👤 Elakkiya M	● New	elakkiya-hexa-assessment
166	🔑 Password Hashing		👤 Elakkiya M	● New	elakkiya-hexa-assessment

Tasks under the User Story – Activity Logs

Work items

Recently created

+ New Work Item

Open in Queries

Column Options

Import Work Items

Recycle Bin

Filter by keyword

Types

Assigned to

States

ID	Title	Assigned To	State	Area Path
170	Log Reporting	Elakkiya M	New	elakkiya-hexa-assessment
169	Log Storage	Elakkiya M	New	elakkiya-hexa-assessment
168	Log Implementation	Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – OTP Login

Work items

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

Filter by keyword

TypesAssigned toStatesA

ID	Title		Assigned To	State	Area Path
172	OTP Validation	...	Elakkiya M	New	elakkiya-hexa-assessment
171	OTP Generation		Elakkiya M	New	elakkiya-hexa-assessment

Tasks under the User Story – Email/SMS Verification

Recently created ▾

+ New Work Item ▾

→ Open in Queries

🔗 Column Options

↑ Import Work Items

🗑️ Recycle Bin

☰ Filter by keyword

Types ▾

Assigned to ▾

States ▾

Area ▾

ID	Title		Assigned To	State	Area Path
✓ 174	📄 SMS Verification	...	👤 Elakkiya M	● New	elakkiya-hexa-assessment
173	📄 Email Verification		👤 Elakkiya M	● New	elakkiya-hexa-assessment

The final sample structure:

Epic 1: User Management

- Feature: User Registration
 - User Story: Registration Form
 - Task: UI Design
 - Task: API Development
 - Task: DB Insert
 - Task: Input Validation
 - User Story: Admin Approval
 - Task: Approval Page
 - Task: Workflow Logic
 - Task: DB Update
- Feature: User Authentication (Login)
 - User Story: User Login
 - Task: Login Form
 - Task: Login API
 - Task: Credential Validation
 - Task: Login Status
 - User Story: Session Management
 - Task: Session Token
 - Task: Session Expiry
 - Task: Session Validation
- Feature: Password Reset
 - User Story: Password Reset via Email
 - Task: Request Form
 - Task: Email Link
 - Task: Password Update
 - User Story: Security Questions
 - Task: Question Setup
 - Task: Question Validation

Epic 2: Account Services

- Feature: Account Creation
 - User Story: Savings Account Creation
 - Task: Form Design
 - Task: API Development
 - Task: DB Storage
 - User Story: Current Account Creation
 - Task: Form Design
 - Task: API Development
 - Task: DB Storage
- Feature: View Account Balance
 - User Story: Balance Inquiry
 - Task: Balance API
 - Task: DB Fetch
 - Task: UI Display
 - User Story: Mini Statement
 - Task: Statement API
 - Task: DB Fetch
 - Task: UI Display

Epic 3: Fund Transfer

- Feature: Within Bank Transfer
 - User Story: Internal Fund Transfer
 - Task: Transfer Form
 - Task: Transfer API
 - Task: DB Update
 - Task: Confirmation UI
- Feature: Other Bank Transfer
 - User Story: External Fund Transfer
 - Task: External API Integration
 - Task: Account Validation
 - Task: Amount Deduction

- Task: Status Display
- Feature: Scheduled Transfers
 - User Story: Auto Transfer Setup
 - Task: Schedule Form
 - Task: Scheduler Logic
 - Task: Notification

Epic 4: Transaction History

- Feature: View Transaction History
 - User Story: Recent Transactions
 - Task: History API
 - Task: DB Fetch
 - Task: UI Display
- Feature: Export/Download Statement
 - User Story: Statement Download
 - Task: Report Generation
 - Task: Download Option
- Feature: Search & Filter Transactions
 - User Story: Filter by Date
 - Task: Date Filter Implementation
 - User Story: Filter by Amount
 - Task: Amount Filter
 - User Story: Filter by Type
 - Task: Type Filter

Epic 5: Security and Compliance

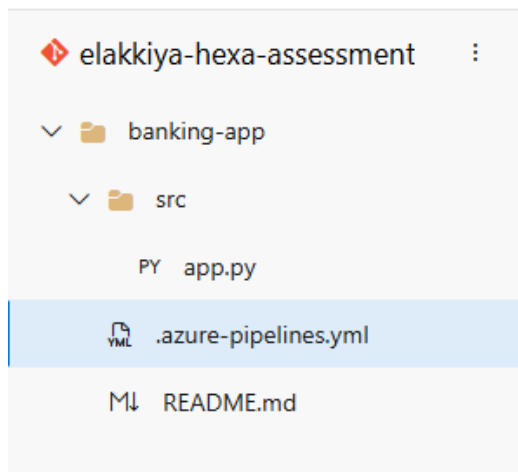
- Feature: Data Encryption
 - User Story: Secure Data Storage
 - Task: Password Hashing
 - Task: Field Encryption
- Feature: Audit Logging
 - User Story: Activity Logs
 - Task: Log Implementation

- Task: Log Storage
 - Task: Log Reporting
- Feature: Multi-Factor Authentication
 - User Story: OTP Login
 - Task: OTP Generation
 - Task: OTP Validation
 - User Story: Email/SMS Verification
 - Task: Email Verification
 - Task: SMS Verification

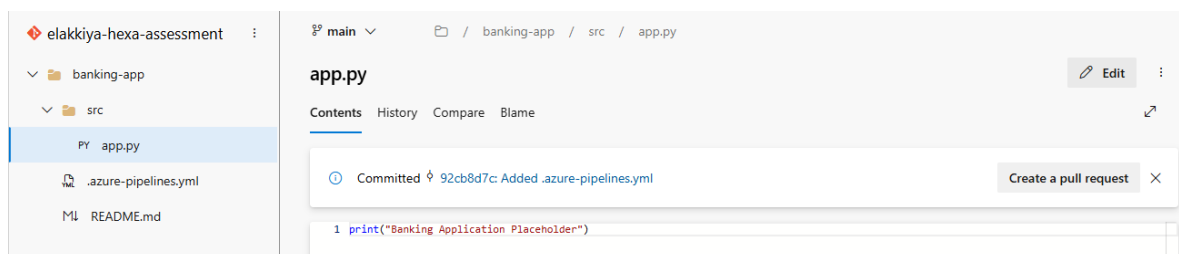
PART 2 - Azure DevOps Git Setup

1. Create a Git Repo

File structure:

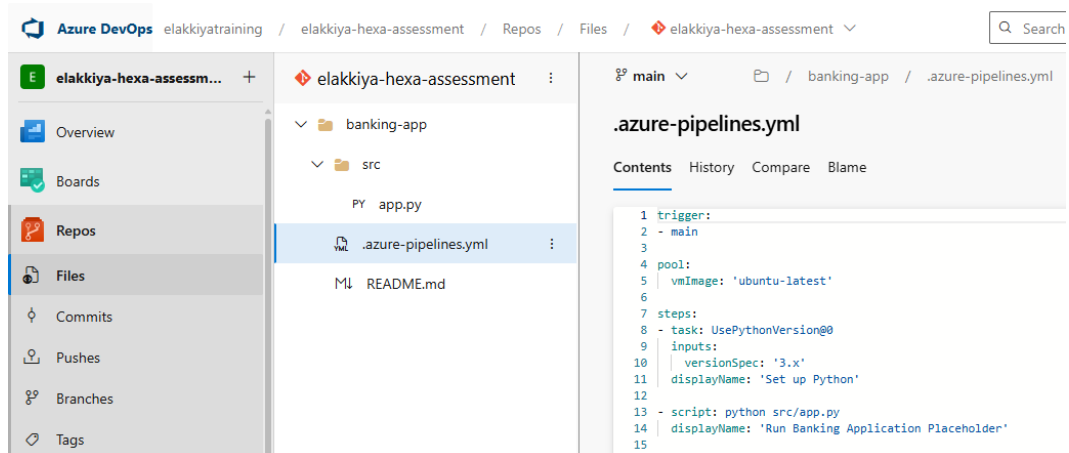


app.py

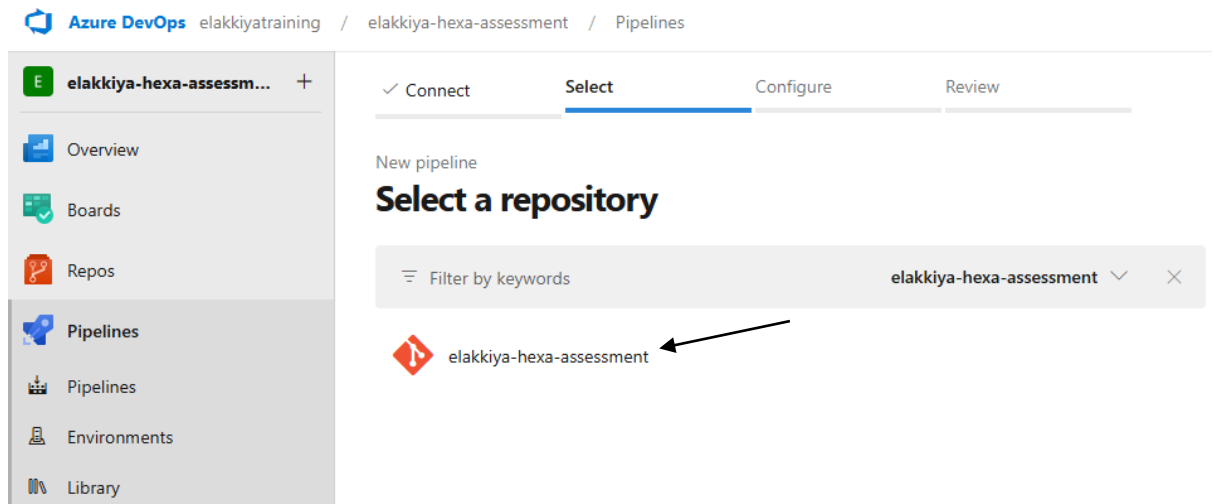
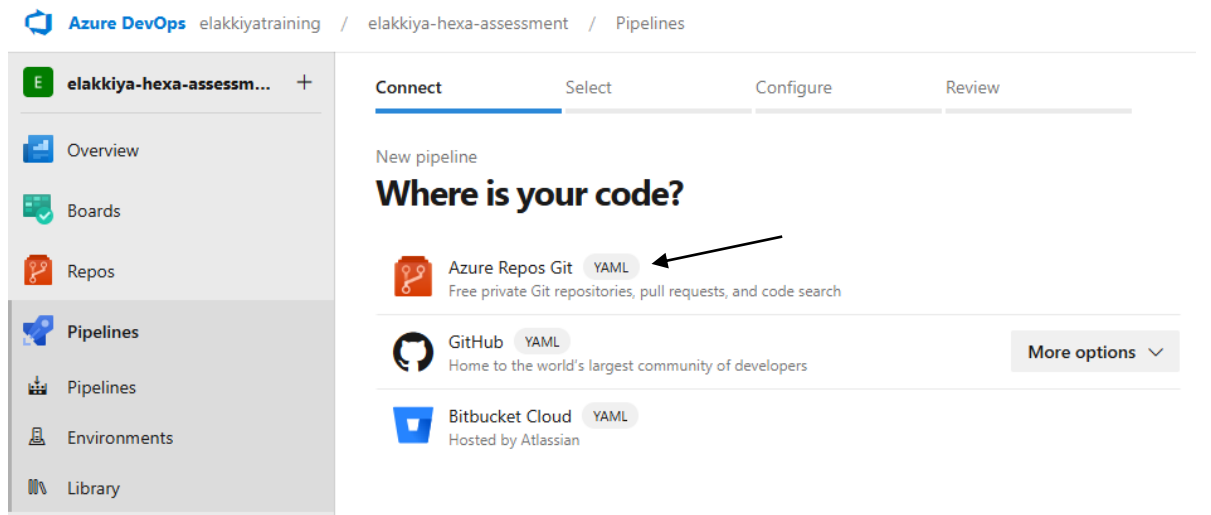


PART 3 - Configure CI/CD Pipeline

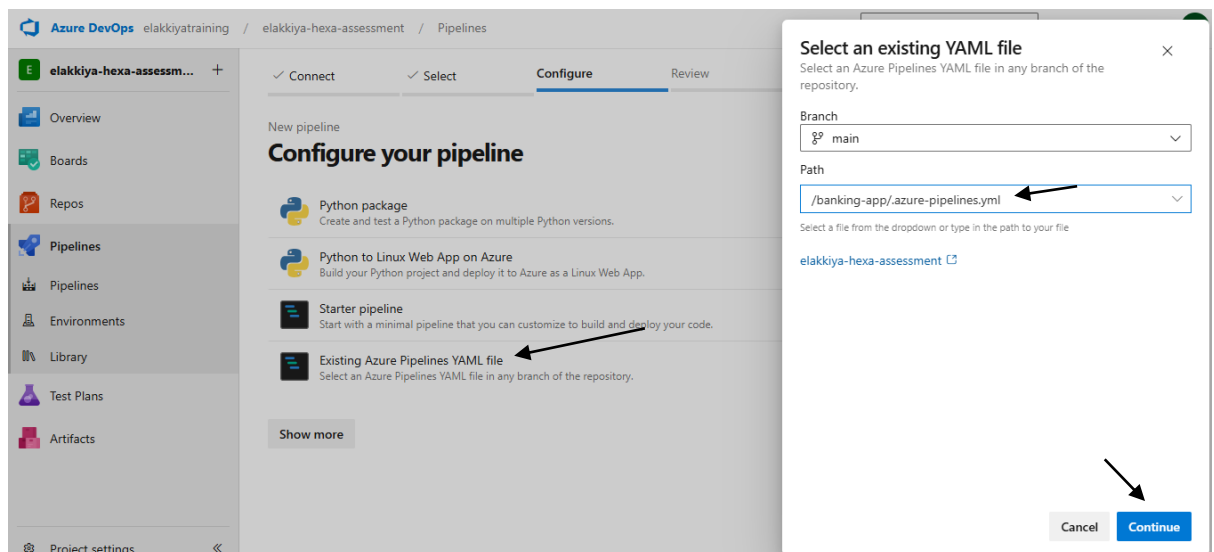
Create Simple Pipeline



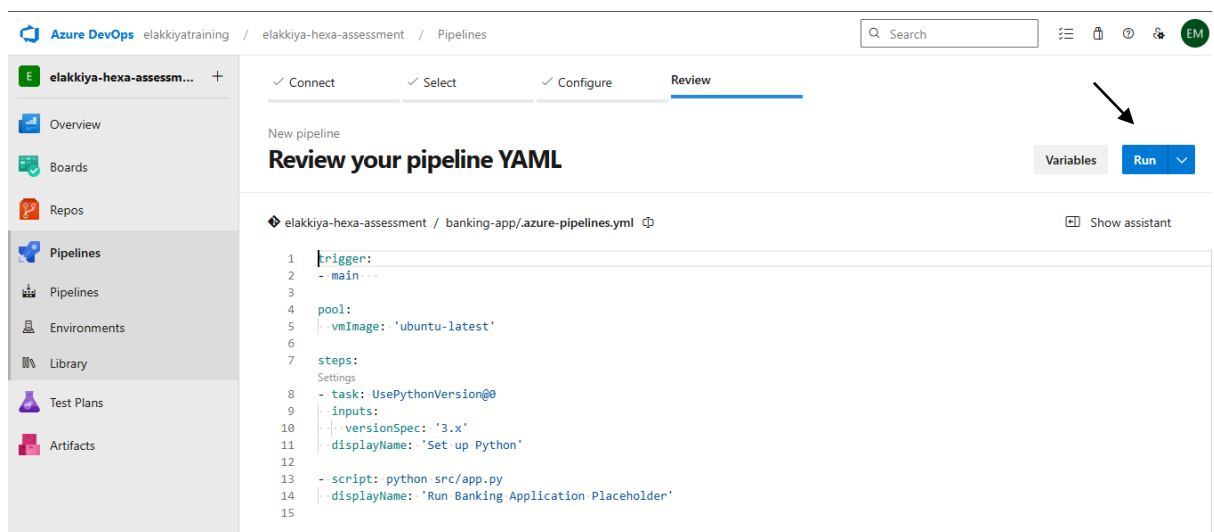
1. Go to Azure DevOps Portal → Pipelines → New Pipeline → Connect your repo → Select YAML.




2. I have the yaml file in repo so I am selecting the existing then select the path and click continue:



3. Save & Run.



This is how we create the pipeline in azure DevOps but we need subscription to run the job successfully

Jobs		
Name	Status	Duration
 Job	Queued	