Banking Application System

- **Keerthika N**

Project Description:

This project simulates a simple banking application that includes core features such as user registration and authentication, account services, fund transfers, transaction history, and security enhancements. This work item breakdown defines the functional units using Agile methodology.

Hierarchical Breakdown:

EPIC 1: User Management

- **Feature:** User Registration
    - User Story: Register via Email
        - Tasks:
            - Design Registration UI
            - Build Register API
            - Save User to DB
            - Hash Passwords
            - Send Welcome Email
- **Feature:** User Authentication
    - User Story: Login with Credentials
        - Tasks:
            - Design Login Page
            - Create Login API
            - Implement Session/JWT

        - Redirect on Success
    - User Story: Handle Failed Login Attempts
        - Tasks:
            - Count Login Failures
            - Block after 3 Attempts
            - Show Error Messages
- **Feature:** Password Reset
    - User Story: Request Password Reset
        - Tasks:
            - Add “Forgot Password” UI
            - Generate Reset Token
            - Send Reset Email
    - User Story: Reset via Email Link
        - Tasks:
            - Design Reset Page
            - Build Reset API
            - Update Password in DB

EPIC 2: Account Services

- **Feature:** View Account Balance
    - User Story: Fetch Account Balance
        - Tasks:
            - Create Balance API

            - Display in Dashboard
            - Handle No Balance
- **Feature:** View Account Details
    - User Story: Display Account Info
        - Tasks:
            - Design Info Section
            - Fetch User Details
            - Mask Sensitive Data

EPIC 3: Fund Transfer

- **Feature:** Initiate Transfer
    - User Story: Enter Transfer Details
        - Tasks:
            - Create Transfer Form
            - Validate Amount/Input
            - Build Transfer API
    - User Story: Check Balance Before Transfer
        - Tasks:
            - Fetch & Compare Balance
            - Show Error if Low Balance
- **Feature:** Confirm Transfer
    - User Story: Show Confirmation Message
        - Tasks:

        - Design Success Page
        - Display Ref ID & Date
    - User Story: Email Transfer Receipt
        - Tasks:
            - Format Receipt Email
            - Trigger Email After Transfer

EPIC 4: Transaction History

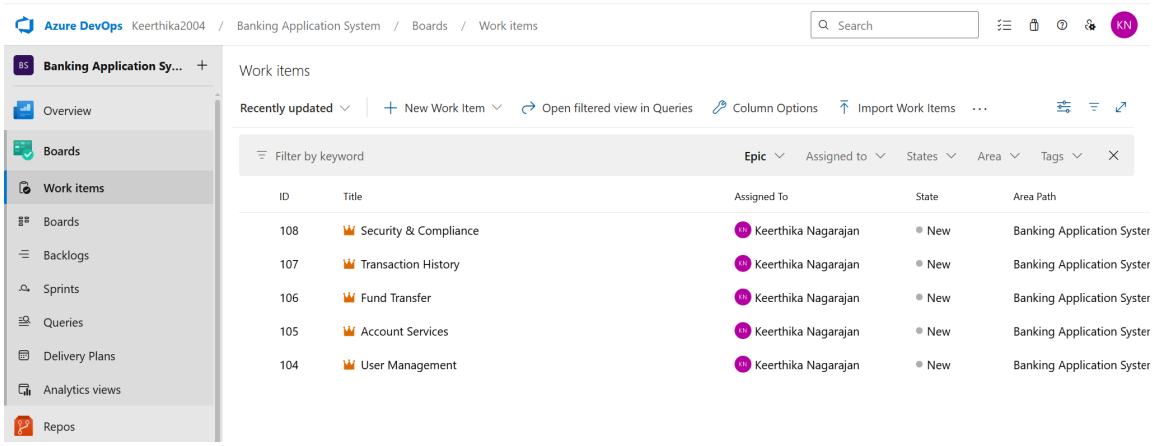
- **Feature:** View Transactions
    - User Story: List Past Transactions
        - Tasks:
            - Build History Table
            - Create Fetch API
            - Handle Empty State
    - User Story: Search & Filter Transactions
        - Tasks:
            - Add Search Box
            - Filter by Date & Type
- **Feature:** Export Transactions
    - User Story: Export as PDF/Excel
        - Tasks:
            - Add Export Button
            - Generate Report File

        - Download or Email File

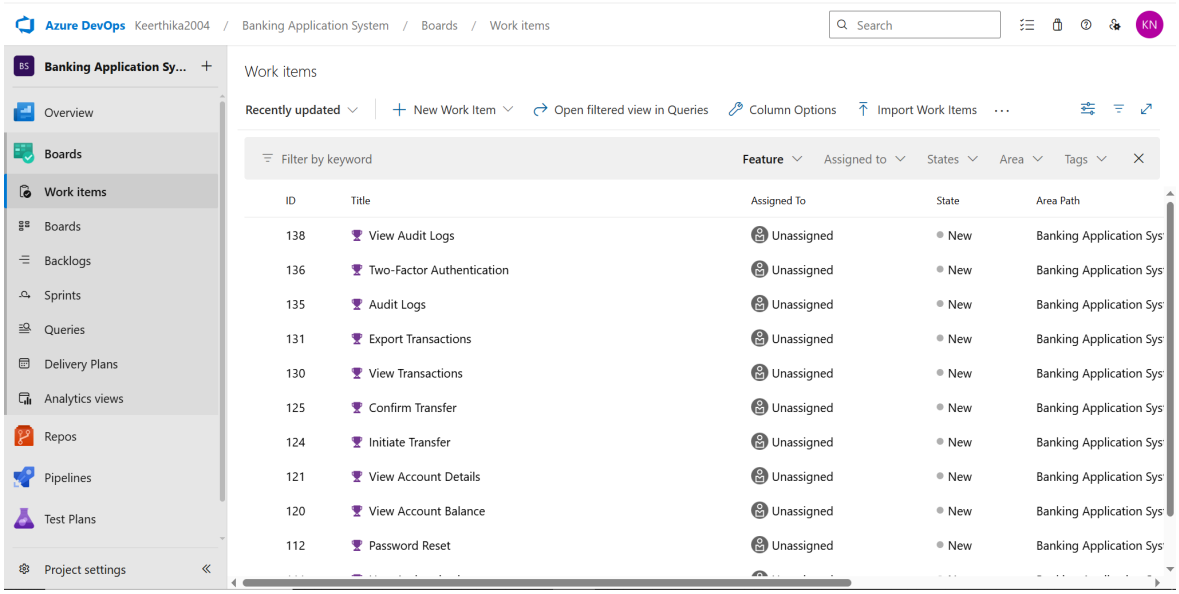
EPIC 5: Security & Compliance

- **Feature:** Audit Logs
    - User Story: Log User Activities
        - Tasks:
            - Capture Actions (Login, Transfer)
            - Save to Logs Table
    - User Story: View Audit Logs
        - Tasks:
            - Build Admin View Page
            - Filter by User/Action/Date
- **Feature:** Two-Factor Authentication
    - User Story: Send OTP for Login
        - Tasks:
            - Generate OTP
            - Send via SMS/Email
    - User Story: Validate OTP Input
        - Tasks:
            - Design OTP Form
            - Create OTP Verify API
            - Handle Expired OTP

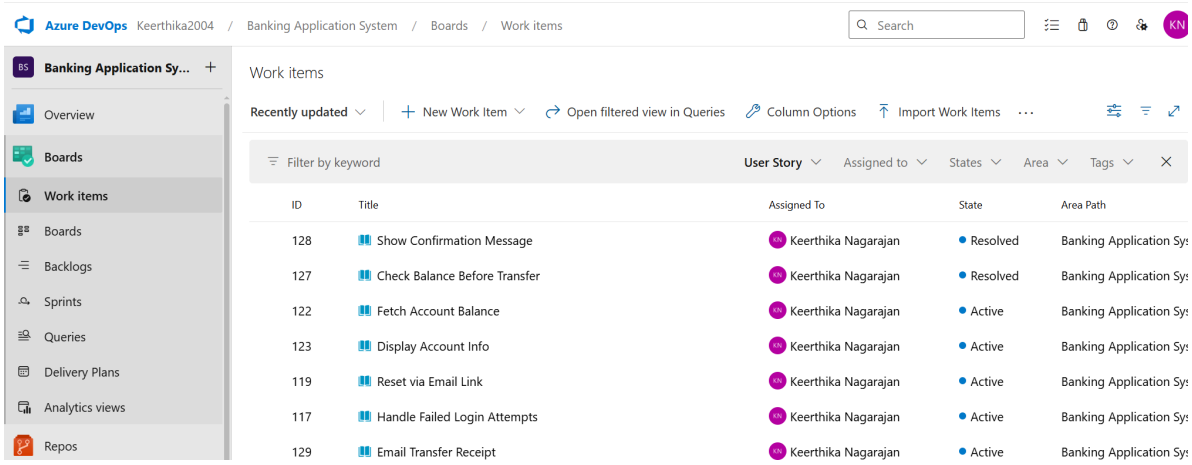
EPICS:



FEATURES:



USER STORIES:


Azure DevOps
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Banking Application System
Boards
Work items
Search
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Overview
Boards
Work items
Boards
Backlogs
Sprints
Queries
Delivery Plans
Analytics views
Repos
Work items
Recently updated
New Work Item
Open filtered view in Queries
Column Options
Import Work Items
Filter by keyword
User Story
Assigned to
States
Area
Tags
ID
Title
Assigned To
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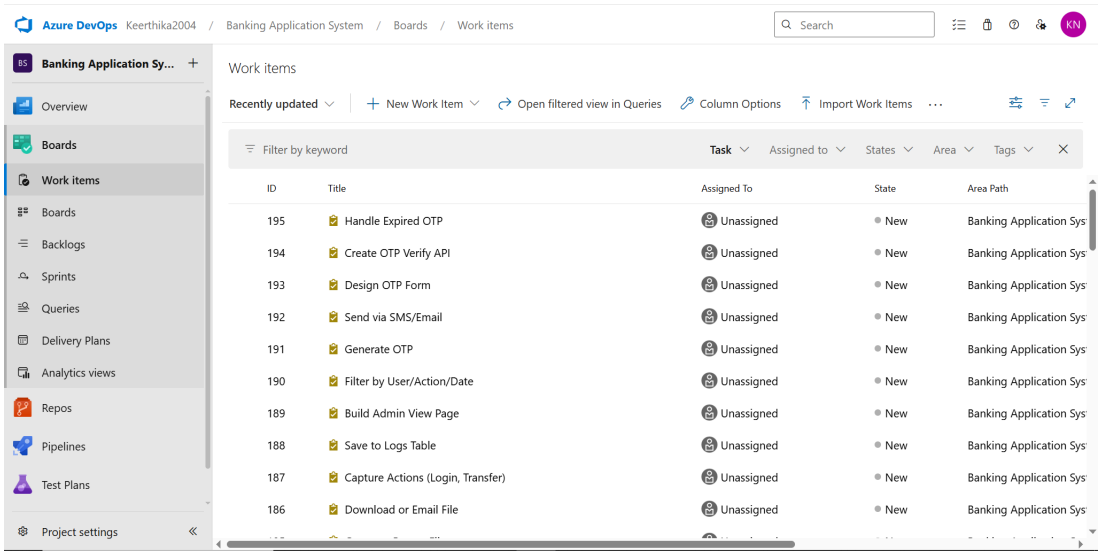
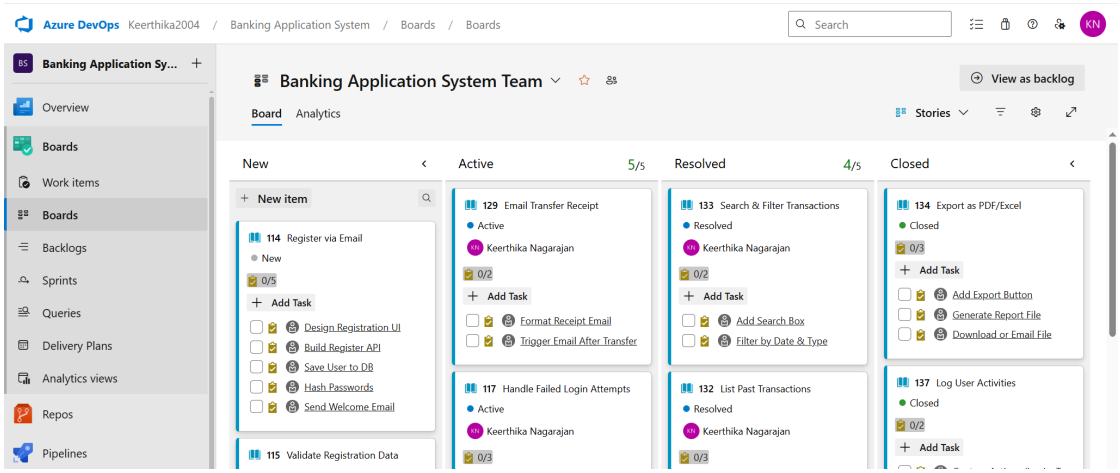
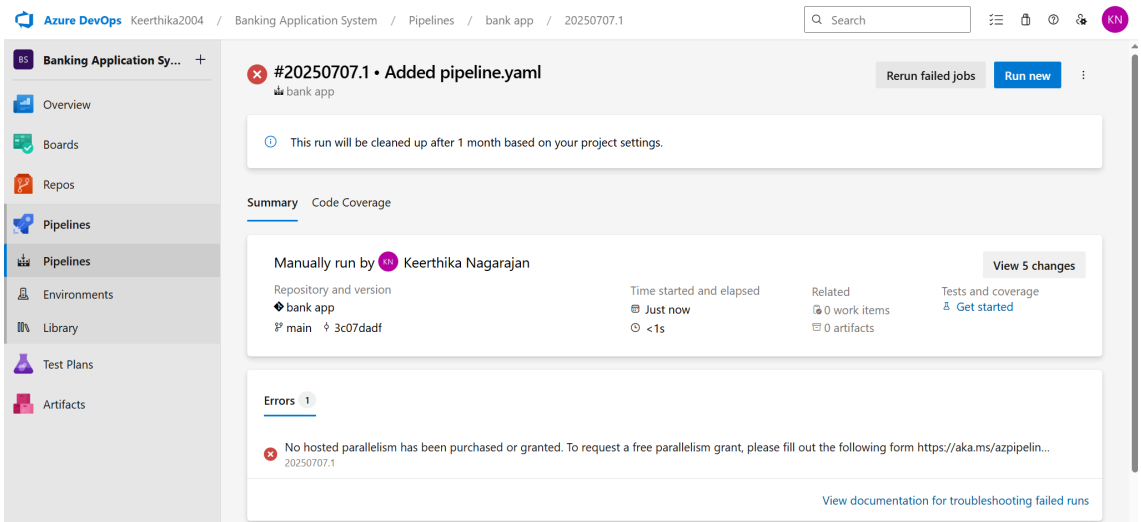
Area Path
128 Show Confirmation Message Keerthika Nagarajan Resolved Banking Application Sys
127 Check Balance Before Transfer Keerthika Nagarajan Resolved Banking Application Sys
122 Fetch Account Balance Keerthika Nagarajan Active Banking Application Sys
123 Display Account Info Keerthika Nagarajan Active Banking Application Sys
119 Reset via Email Link Keerthika Nagarajan Active Banking Application Sys
117 Handle Failed Login Attempts Keerthika Nagarajan Active Banking Application Sys
129 Email Transfer Receipt Keerthika Nagarajan Active Banking Application Sys

TASKS:



BOARD:



CONFIGURE AND RUN AZURE PIPELINE: