

## Assignment-4 (Group 1)

### Requirements for National Comedy Center

#### Project Introduction

The National Comedy Center, located in Jamestown, New York, is a museum dedicated to comedy. A lot of operations are involved at NCC, such as patron registration, patron's profile management, selection of comedians by patrons, exhibits showing audio or video as per selections made by patrons, managing patron's artifacts, fundraising, etc., to provide an immersive user experience. The Patron Profile System is crucial in increasing users' engagement at National Comedy Center. To outline the Patron Profile System's requirements in Azure DevOps, the team came up with the format of creating an epic, features, and user stories.

Below are images of the requirements in Azure DevOps:

The screenshot shows the Azure DevOps interface for the 'National Comedy Center Team'. The left sidebar contains navigation options: Overview, Boards, Work items, Boards, Backlogs (selected), Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main area displays the 'Backlog' view with a table of work items. The table has columns for Order, Work Item Type, Title, State, Effort, Business Area, Value Area, and Tags. The work items are organized into a hierarchy: an Epic 'Patron Profile System at the National Comedy Center' contains a Feature 'Reporting and Customer Segmentation Stakeholder: ...', which contains a User Story 'Patron engagement'. Another Epic 'Target based marketing campaign' contains a User Story 'Data Access and Validation', which contains a Feature 'Creating data validation system', which contains a User Story 'System development for retaining data', which contains a User Story 'System Development To Ensure Data privacy'. The final Epic 'Patron Profile, Recovery and Security' contains a Feature 'Patron Profile Mangement', which contains a User Story 'Enhance User Security', which contains a User Story 'Profile management and account recovery', which contains a User Story 'View Previous attendance', which contains a Feature 'Enhance System Robustness'. All items are in the 'New' state.

Order	Work Item Type	Title	State	Effort	Business Area	Value Area	Tags
1	Epic	Patron Profile System at the National Comedy Center	New		Business		
	Feature	Reporting and Customer Segmentation Stakeholder: ...	New		Business		
	User Story	Patron engagement	New		Business		
	User Story	Target based marketing campaign	New		Business		
	Feature	Data Access and Validation	New		Business		
	User Story	Creating data validation system	New		Business		
	User Story	System development for retaining data	New		Business		
	User Story	System Development To Ensure Data privacy	New		Business		
	Feature	Patron Profile, Recovery and Security	New		Business		
	User Story	Patron Profile Mangement	New		Business		
	User Story	Enhance User Security	New		Business		
	User Story	Profile management and account recovery	New		Business		
	User Story	View Previous attendance	New		Business		
	Feature	Enhance System Robustness	New		Business		

Image 1: Creation of Epic, Features, and User Stories

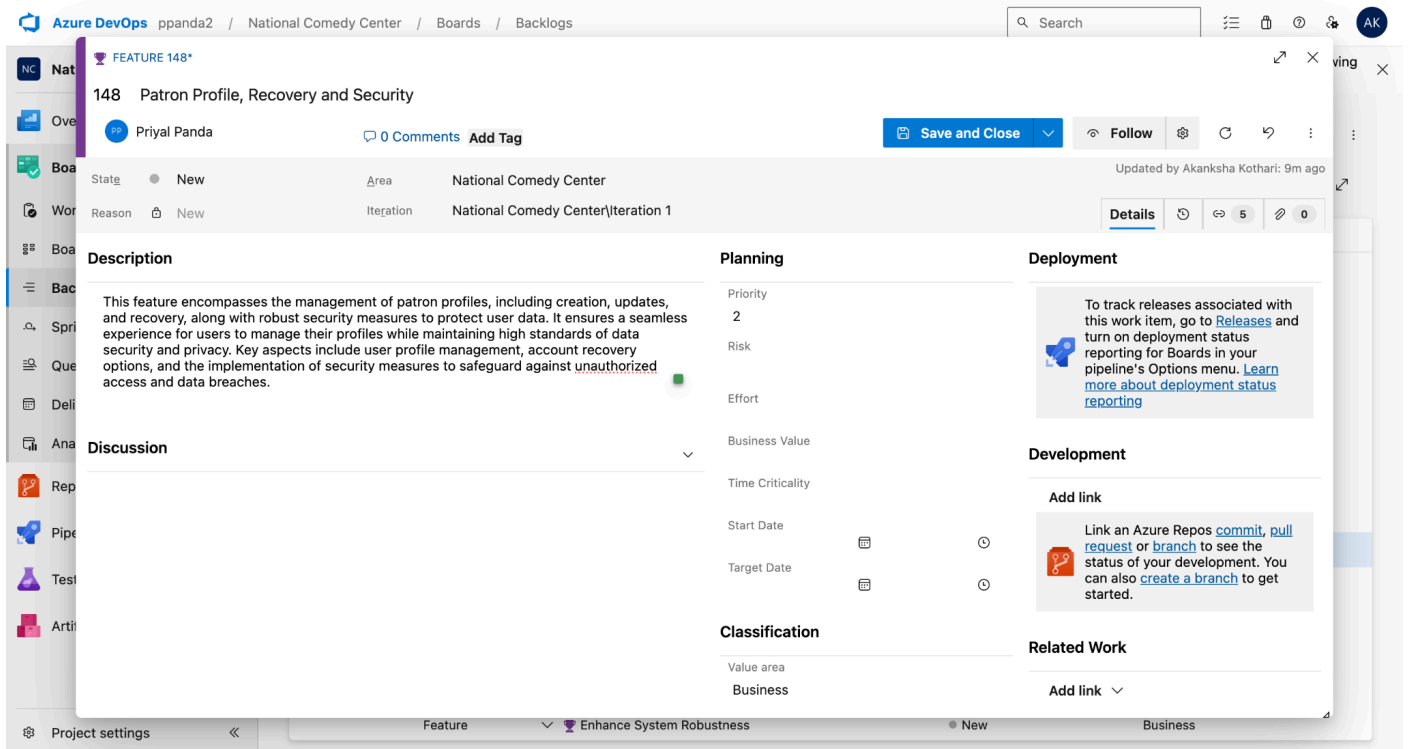


Image 2: Creation of Features

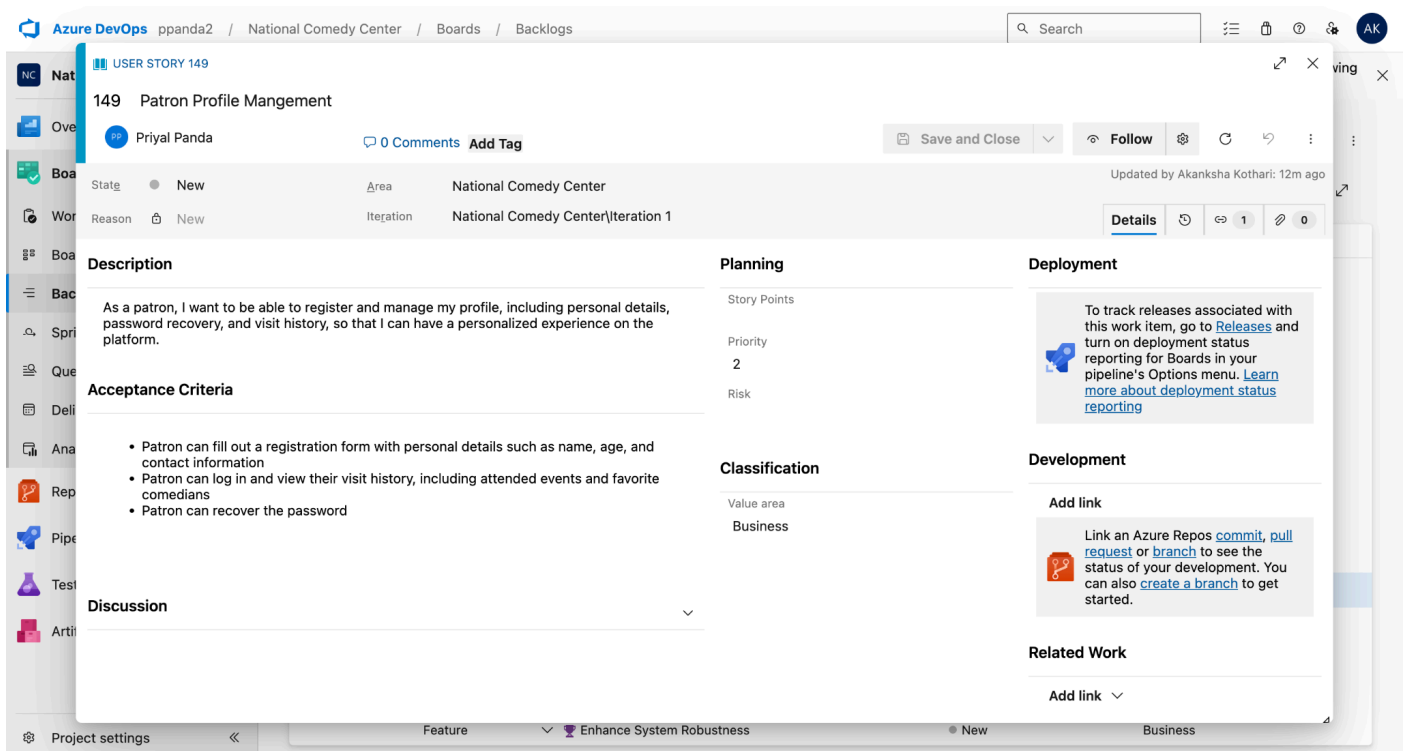


Image 3: Creation of User Stories

The following are the requirements to develop this system based on different perspectives:

## 1. Business Requirements

### Perspective: Sponsors/System Champion

- System should provide detailed analytics and reporting on patron engagement for decision-making
- System should support patron segmentation based on profiles to increase membership renewals via promotional campaigns

## **2. Business Rule**

### **Perspective: Developer**

3. System should enforce data validation rules to ensure that all user inputs meet specified formats
4. System should log all changes in Patron's Profile

### **Perspective: Sponsors/System Champion**

5. System should restrict access to certain data fields to only authorized personnel to ensure data security and privacy

## **3. Functional Requirements**

### **Perspective: Users**

6. System should provide a registration form that allows patrons to input information such as name, age, address, and phone number
7. System must allow patrons to log in and access their visit history
8. System should allow patrons to reset their password

### **Perspective: Developers**

9. System must have capability of multi-factor authentication to enhance security

## **4. Nonfunctional Requirements**

### **Perspective: Developers**

10. System should be capable of handling multiple users simultaneously without hampering performance
11. System must employ encryption techniques to secure personal data

### **Perspective: Users**

12. System should have a latency of less than 2 seconds for all major interactions

## **5. External Interface Requirements**

### **Perspective: Developers**

13. System must integrate with the social networking platform to enable patron to log in via social networking sites

### **Perspective: Sponsors/System Champion**

14. System should allow sponsors to upload and manage their promotional content

## **6. Constraints**

### **Perspective: Developers**

15. System should comply with data protection and other relevant privacy laws
16. System must be deployed on the existing infrastructure to maintain consistency with other systems

**Link to Azure DevOps for the project:** [Azure DevOps](#)

### **References**

1. National Comedy Center, <https://comedycenter.org/>
2. Major Air, *National Comedy Center Tour 2022 - Jamestown, NY*, YouTube, <https://www.youtube.com/watch?v=BI-fwzf5kjU&t=316s>