Project Requirements Document (PRD)

# Project Name: TV Show Progress Tracker

## 1. Purpose

The purpose of the TV Show Progress Tracker is to allow users to monitor and manage their progress watching various TV shows. Users can categorize shows as:  
- Plan to Watch  
- Currently Watching  
- Finished Watching  
  
This system provides a personal experience, where each user can track their viewing habits, rate shows, and receive progress summaries.

## 2. Target Users

- General TV show watchers who wish to organize their watchlist  
- Users who want to rate and review shows

## 3. Key Features and Functionality

### Basic Functionalities

- User login and authentication (username/password)  
- Account creation for new users  
- Menu-driven console UI for interacting with the tracker  
- View, update, and categorize TV shows as:  
 - Plan to Watch  
 - Currently Watching (with progress: episodes watched / total)  
 - Finished Watching  
- Each user has a private tracker  
- Users can update show status and progress

### Database Integration

- MySQL backend with:  
 - users table  
 - tv\_shows table  
 - show\_tracker (junction) table to track user progress per show  
- ER diagram included   
- SQL script for initial database schema and sample data

### Java Integration

- Java backend using:  
 - JDBC for DB connection  
 - DAO design pattern for data access  
 - Maven for dependency management  
- 2 custom exceptions (UserNotFoundException, InvalidInputException)

### Agile & Version Control

- Git used for version control  
- GitHub Kanban board for Agile task tracking

## 4. Extensions / Optional Features

- Admin features:  
 - Add, remove, and edit show metadata  
- Average rating per show (users rate shows out of 5 stars)  
- Show statistics (e.g., how many users completed or are watching each show)  
- Show percentage completion (e.g., “Watched 12/50 episodes”)

## 5. Data Requirements

### Minimum Show Data:

- Title  
- Genre  
- Number of episodes  
- Description (optional)  
- Average user rating

### Minimum User Data:

- Username  
- Password (hashed)  
 - Status (Plan to Watch, Currently Watching, Finished)  
 - Episodes watched  
 - User rating

## 6. Success Criteria

- Console UI is functional and navigable  
- Users can register/login and manage their show tracking  
- Data persists to and from the MySQL database  
- DAO and JDBC are used correctly  
- Kanban board reflects project progress  
- At least 10 TV shows are available in the system