

# Project Requirements Document (PRD)

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## 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
- Admin users managing the database of available TV 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
  - user\_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, ShowNotTrackedException)

### **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)
- Tracker entries per show:
  - 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