TEST SCENARIO TS-01: SYSTEM INSTALLATION & LAUNCH

Project Name: AniTrack

Module: Installation & Launch

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Date: 5.1.2026

Test Objective

To verify that the application can be deployed.That includes setting up the Python environment, editing the config file, generating and importing the database structure and then successfully starting the web server.

Prerequisites

- OS: Tested only on Windows
- Software: Tested on: Python 3.12.2 or newer, MySQL Server 8.0
- Source Code: Requirements in the requirements.txt file

Test Steps

1. **Download and project preparation**
    - Clone my project to your folder in terminal with:
      git clone https://github.com/InkaEnFu/AniTrack.git
    - Go to the folder:
      cd AnimelistRDBMS

2. **Install dependencies**
    - pip install -r requirements.txt

3. **Configure the application**
    - Open src/config/config.json and set your database credentials:
      Open `src/config/config.json` and set your database credentials:

```
{
   "database": {
      "host": "your_hostname",
      "port": your_port,
      "user": "your_username",
      "password": "your_password",
      "database": "your_database_name"
   }
}
```

4. Generate the database setup script

- Run the application for the first time:

```
cd src
python main.py
```

This will generate a customized SQL script file called `databaze.sql` in the project root directory based on your configuration values.

5. Execute the SQL script in MYSQL WorkBench

1. Open MySQL Workbench
2. Click on the + next to MySQL Connections
3. Type your Hostname, port. Let Username be root.
4. Go to **File** > **Open SQL Script**
5. Select the generated `databaze.sql` file
6. Click the lightning bolt icon to execute the script

6. Run the application

```
cd src
python main.py
```

The application will be available at https://localhost:5000

Success Criteria

ID	Success Criterion	Expected Result	Status
1	**Dependencies**	All required libraries from `requirements.txt` are installed.	[ ]
2	**Configuration**	`config.json` contains valid database credentials.	[ ]
3	**SQL Generation**	`databaze.sql` is automatically generated in the root folder.	[ ]
4	**Database Creation**	The schema is successfully created in MySQL Server.	[ ]
5	**Tables**	All **6 tables** are present (Users, Anime, Genres, Watchlist, etc.).	[ ]
6	**Views**	Both **2 views** are functional for data abstraction.	[ ]
7	**Triggers**	All **3 triggers** are active for automated history logging.	[ ]

8	**Application Launch**	Flask server starts on http://localhost:5000 without errors.	[ ]
9	**Accessibility**	The web interface loads in the browser.	[ ]
10	**UI Display**	Navigation and main dashboard elements are visible.	[ ]

Test Data Summary

Category	**Details**
System Environment	Windows OS, Python 3.12.2+, MySQL 8.0
Connection Parameters	Host: 127.0.0.1, Port: 3306
Generated Files	databaze.sql (Setup script)
Database Objects	6 Tables, 2 Views, 3 Triggers
Access URL	http://localhost:5000