Process

Sprint Planning: At the beginning of each sprint, our team conducted a Sprint Planning meeting where we defined the sprint goal and selected backlog items to work on. Responsibilities were distributed among team members based on skill sets, and we ensured that each story aligned with our overall sprint goal.

Daily Standups: We conducted fifteen-minute standups each workday and discussed our accomplishments, goals, and any challenges faced. During these standups, team members shared updates on their accomplishments, outlined goals for the day, and discussed any obstacles they encountered.

Sprint Execution: We assigned tasks and user stories on Jira. Slack was our primary communication tool for real-time updates and discussions, helping us address questions, provide feedback, and collaborate seamlessly.
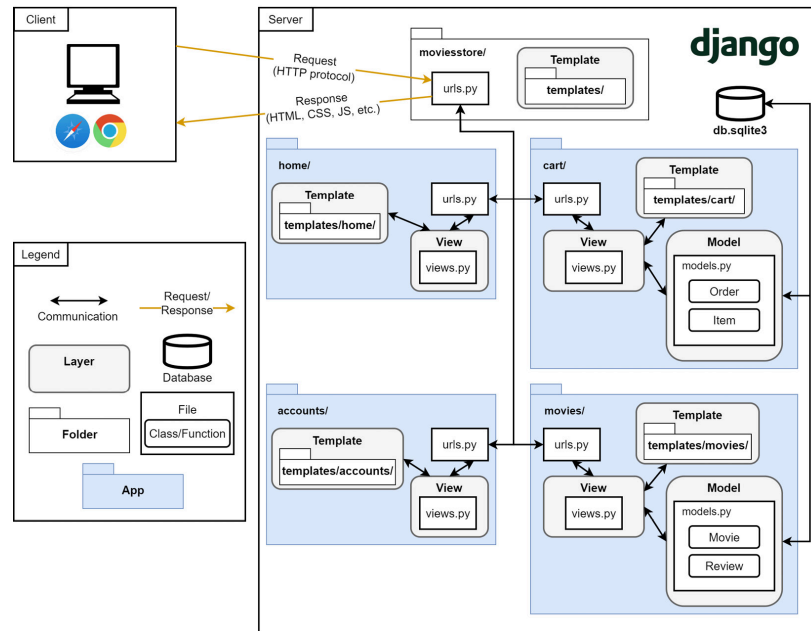
Sprint Review: We reviewed our daily standup tasks and were able to grow from the feedback provided during our meetings. We discussed the challenges we faced and identified areas for improvement.

Sprint Retrospective: We took time to reflect on both the success and the areas for improvement from the sprint. We began by acknowledging the things that went well, such as efficiency during daily standups, successful completion of ascertaining tasks ahead of schedule, and collaboration on complex issues.
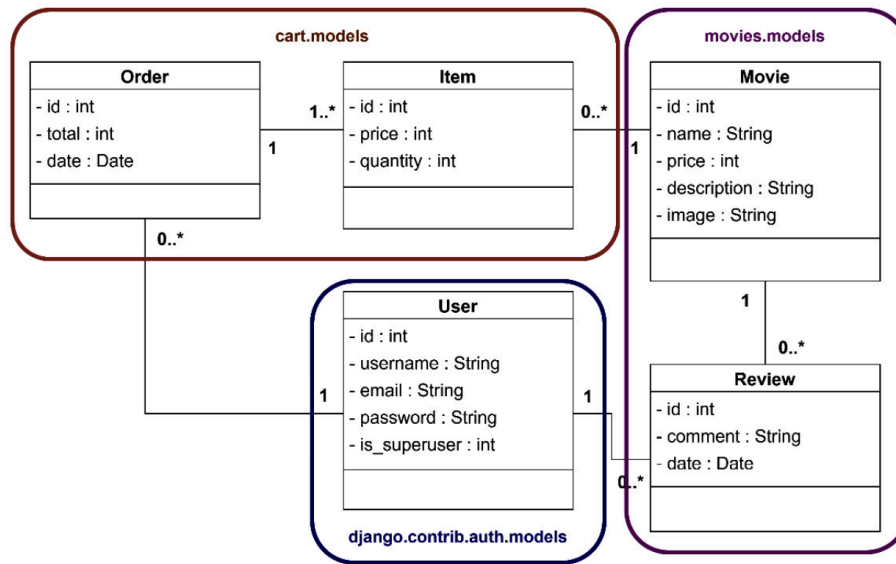
Diagrams

Project Structure:

This diagram represents the project structure, showcasing how all the applications (home, movies, accounts, cart) and their corresponding files interact with each other. Additionally, we demonstrate how the client interacts with the server via HTTP requests and responses.
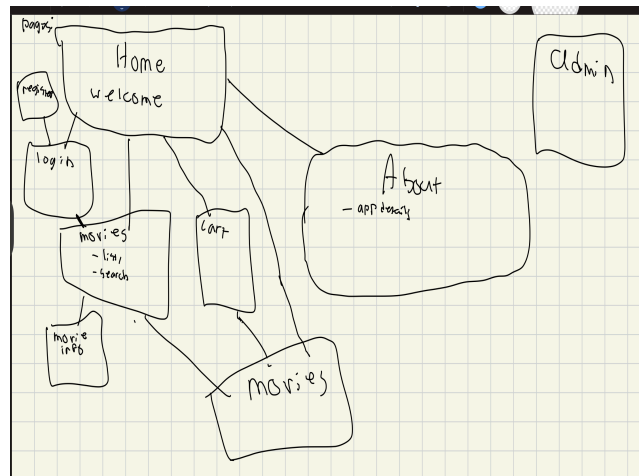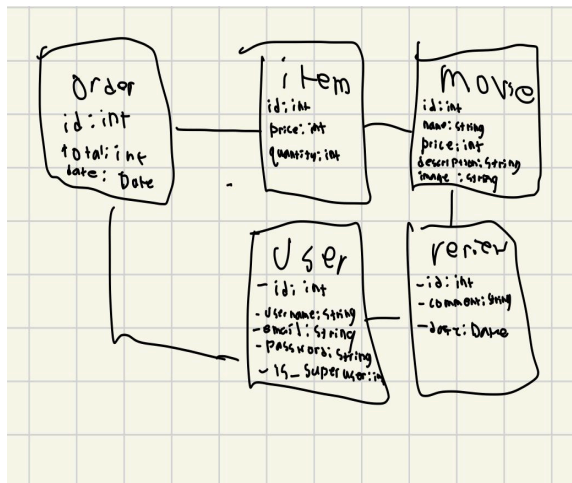

Domain Model Diagram:

This diagram represents a domain model showcasing the connection of users, orders, items, and movies. The cart.models section includes Order and Item, where an order consists of multiple items, and each item is linked to a movie. The movies.models section includes Movie and Review, allowing users to leave multiple reviews for movies. The django.contrib.auth.models section manages user authentication with attributes like username, email, and password.

cart.models

Order
- id : int
- total : int
- date : Date

Item
- id : int
- price : int
- quantity : int

1..*   1

0..*

movies.models

Movie
- id : int
- name : String
- price : int
- description : String
- image : String

1   0..*

Review
- id : int
- comment : String
- date : Date

django.contrib.auth.models

User
- id : int
- username : String
- email : String
- password : String
- is_superuser : int

1   1

0..*

Pre- Sprint Class Diagrams:

Scrum Documentation

Date: 1/28/25

Goals: Initialize the Movie Store Project

- Krish: Set up the Django project structure, organized core folders and essential files
- Ankit: Initialized the Git repository and pushed the first commit
- Sri: Assisted in structuring the Django project, ensuring proper directory hierarchy
- Charan: Began implementing initial functionalities, ensuring core features were aligned with project requirements
- Abhi: Maintained the Scrum documentation, tracked team progress, and updated tasks

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Date: 1/30/25

Goals: Create the Home App and Develop a Base Template

- Krish: Designed a base template using Bootstrap, ensuring responsive UI features
- Ankit: Integrated the home page with the base template
- Sri: Updated the "About" page to follow the base template
- Charan: Implemented a structured header section with navigation links
- Abhi: Implement a structured footer section with navigation links

---

Date: 1/31/25

Goals: Create the Movies App

- Krish: Created and configured the Movies app, setting up the necessary files
- Ankit: Created and configured the Movies app, setting up the necessary files
- Sri: Implemented a listing page to display individual movie entries
- Charan: Managed version control, committed code changes, and ensured the latest updates were merged
- Abhi: Maintained the Scrum documentation, tracked team progress, and updated tasks

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Date: 2/3/25

Goals: Create Models and Integrate to Admin

- Krish: Defined the first model
- Ankit: Installed Pillow
- Sri: Configured Django admin, created a superuser for database management
- Charan: Defined the first model
- Abhi: Maintained the Scrum documentation, tracked team progress, and updated tasks

---

Date: 2/4/25

Goals: Implement Search Functionality and Understand Database

- Krish: Further developed and refined models
- Ankit: Performed migrations
- Sri: Continued refining Django admin & added 'about' page view
- Charan: Reviewed the Jira documentation to ensure alignment with user stories
- Abhi: Hosted standup and discussed any obstacles

Date: 2/5/25
Goals: implement user login functionality

- Krish: Delegated tasks, created view for login page, created user creation form
- Ankit: Created view for sign up page
- Sri: Created view for sign up page and added links to access it from home page
- Charan: Managed scrum document/jira board, created accounts app
- Abhi: Managed models to allow user account information storage/management

---

Date: 2/6/25
Goals: Start implementing reviews system and collaborate with client

- Krish: Further developed and refined models
- Ankit: Checked with TA to ensure satisfactory pacing of project and ensure features are up to client standards
- Sri: Continued refining Django admin & delegated tasks to dev team to address TA feedback
- Charan: Modified models to allow storage of reviews
- Abhi: Modified movie page view to allow displaying and user creation of views

---

Date: 2/10/25
Goals: Continue implementing reviews system

- Krish: Made visual improvements to admin page
- Ankit: Maintained user stories and task management on Jira board
- Sri: Created admin review management functionality
- Charan: Helped modify movie page view to allow displaying and user creation of views
- Abhi: Modified movie page view to allow displaying and user creation of reviews

---

Date: 2/11/25
Goals: Started shopping cart implementation

- Krish: Delegated tasks, helped modify models to allow for shopping cart information storage
- Ankit: Maintained user stories and task management on Jira board
- Sri: Modified models to allow for shopping cart information storage
- Charan: Modified models to allow for shopping cart information storage
- Abhi: Was sick

Date: 2/12/25
Goals: continue shopping cart implementation, finish order management information

- Krish: Delegated tasks, created user view for purchasing a movie
- Ankit: Managed git merging issue
- Sri: Created user view for seeing past orders
- Charan: Implemented order model, item model
- Abhi: Modified admin page to manage user shopping carts and user orders

---

Date: 2/13/25
Goals: Implement password reset functionality

- Krish: Delegated tasks, created "forgot password" view
- Ankit: Tested forgot password functionality and general user account functionality, consulted with TA about progress and current alignment with task instructions
- Sri: Added password requirements for when user creates password
- Charan: Created backend functionality for resetting password
- Abhi: Created backend functionality for resetting password

Date: 2/15/25
Goals: Deploy website & Finish Portfolio Website

- Krish: Wrapped up website and final push, recorded demo
- Ankit: Managed website domains, created/worked on portfolio website, recorded demo
- Sri: worked on portfolio
- Charan: planned out procedure for video demo
- Abhi: Planned out procedure for video demo

Ronak 3 - Project 1: Sprint 1 Planning

1. Scrum Roles and Additional Responsibilities

Scrum Positions:

Scrum Roles:

Scrum Master: Sri Ritvik Maddireddy

Product Owner: Ankit Chandra

Developer: Krish Arora, Charan Koyaguri, Abhi Nookarapu
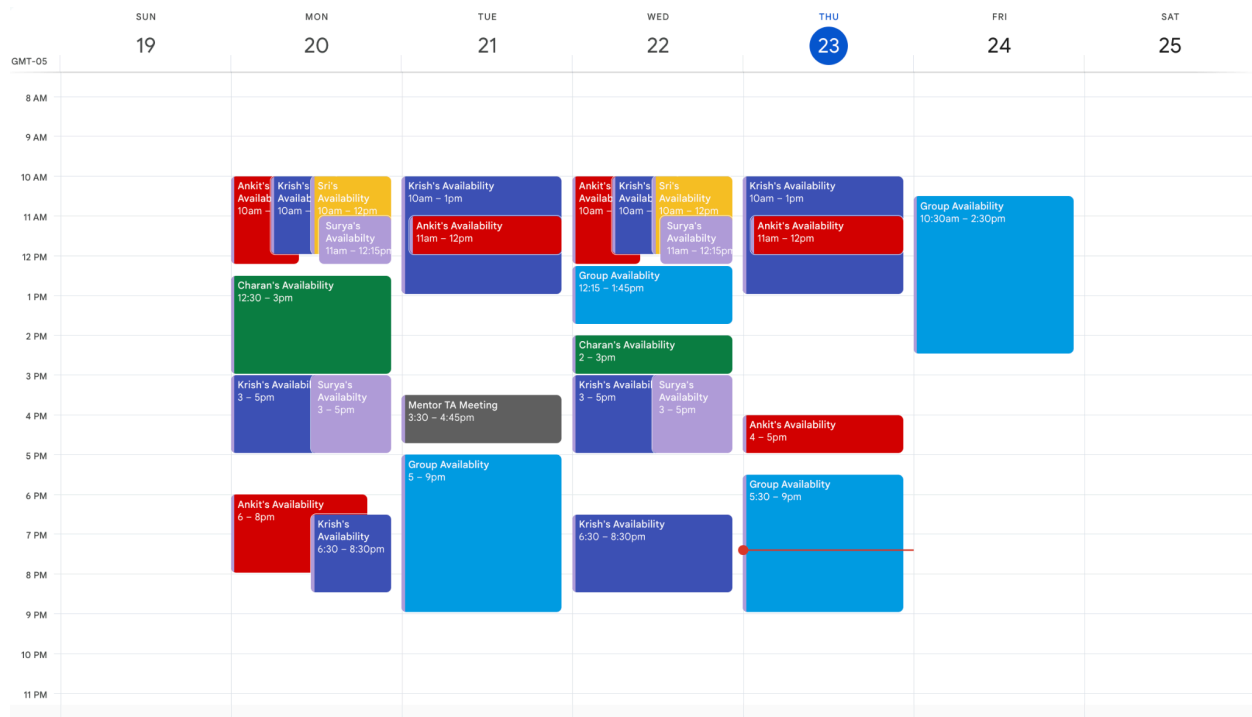
Design Development and Evaluation Positions:

Roles:

Full-Stack Developer: Ankit Chandra, Abhi Nookarapu

Front-End Developer: Krish Arora

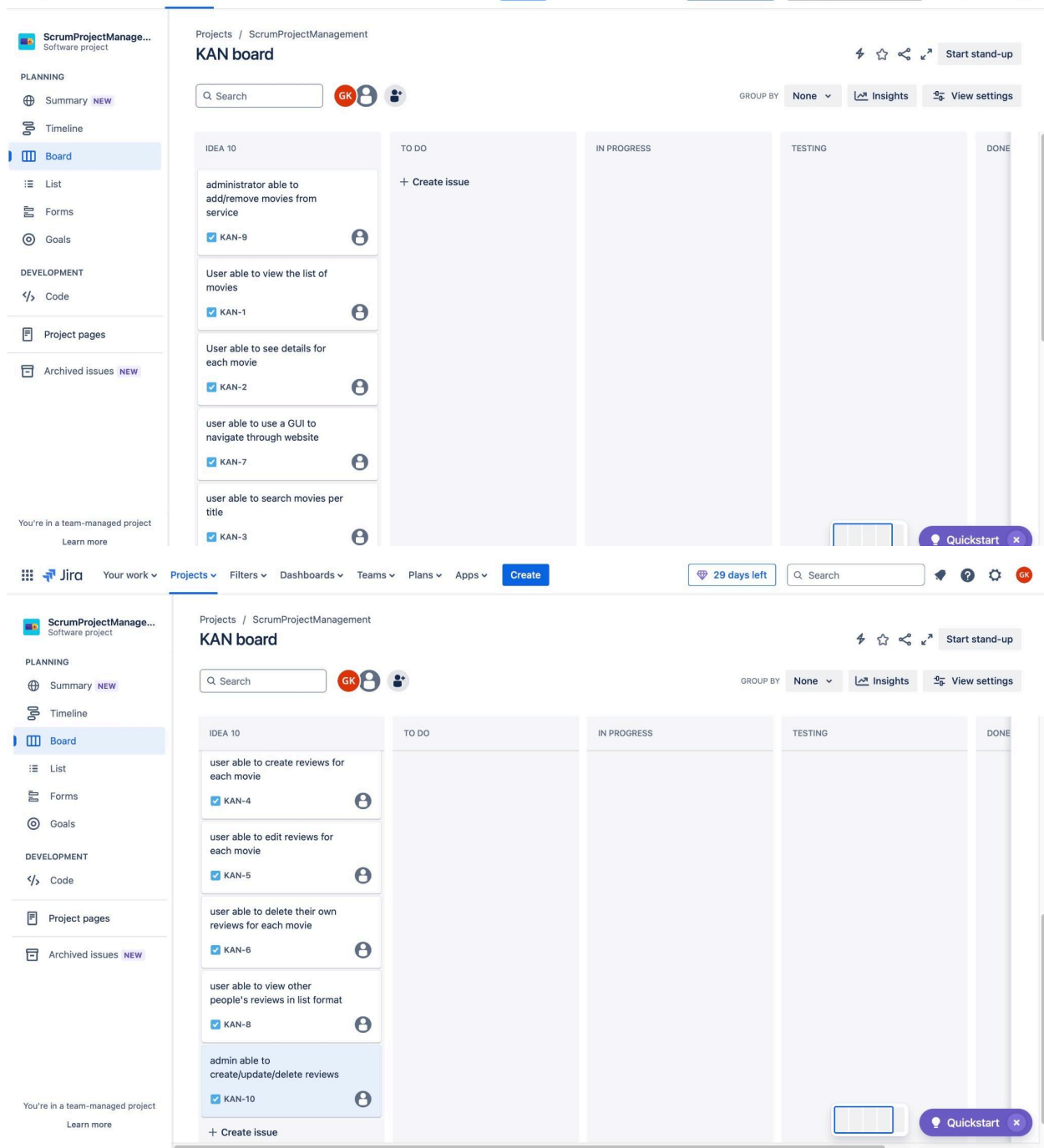Back-End Developer: Sri Ritvik Maddireddy, Charan Koyaguri

Shared Calendar:

2. User Stories and Backlog Presentation

JIRA: https://georgiatechscrum.atlassian.net/

We primarily picked user stories relating to administration, adding/removing movies, and adding/editing/removing reviews. These stories are the most important to work on initially because they provide the basic functionality of the application, where users can access information about the movies. In our next sprint, we'll focus more on the shopping features and user account management as it aligns with the project's objectives.
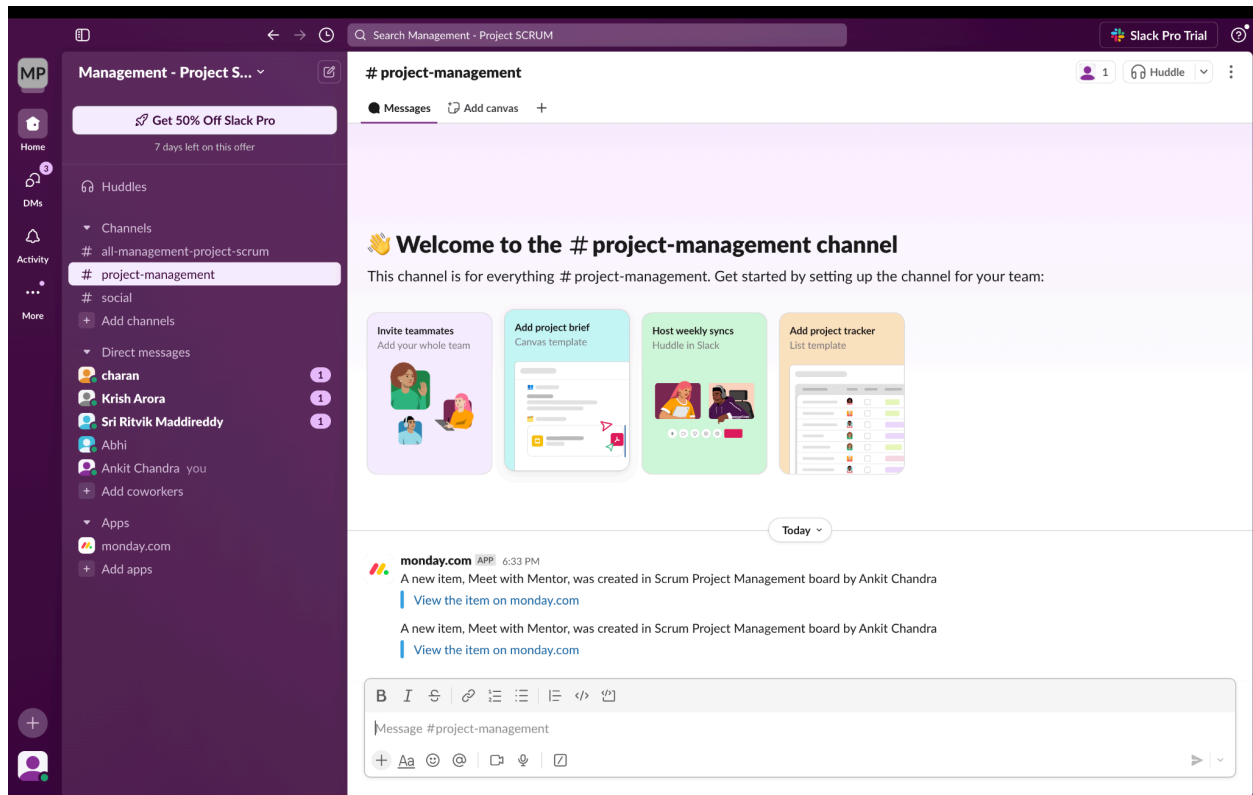
3. **When to Meet the TA**

Weekly Check-In Times:
- Tuesday: 3:30 P.M. - 4:45 P.M. (In Class)
- Date and Time: TBD (CCB 267)

4. **Staying in Touch**

For the purpose of this task, we will be utilizing **Slack** for communication and **Discord** to communicate with our mentor TA. Any technical issues that will be raised will be flagged in **Github** which will automatically be implemented into the other workspaces, as well as an individual priority update in the Slack channel. We will discuss issues and disagreements in weekly standup, as well as in our Slack channels. The Project Owner and Scrum Master will lead this discussion with direct feedback from the developers. Our main decision-making process involves all of us focusing on a user story, suggesting potential solutions/approaches. After some discussion, the product manager signs off on the best approach, and the product manager collaborates with the scrum master, who then assigns tasks for each developer.

SLACK: https://managementpro-wsy7439.slack.com/

Ronak 3 - Project: 1 Sprint 1 Demo Retrospective

1. <u>Introduction</u>

Our first sprint occurred from 1/21/2025 to 2/5/2025. In the following retrospective, we reflect on what worked well, what did not work well, possible issues, and strategies for improvement. By reflecting on our development process, we aim to increase productivity and enhance collaboration to improve overall efficiency and ensure success moving forward.

2. <u>What Worked Well? What did not Work Well?</u>

- **What Worked Well:**
  - <u>Scrum Roles:</u> In sprint one planning, we clearly defined team roles and responsibilities. This helped us stay organized, communicate effectively, and maintain continuous progress.
  - <u>Task Management:</u> We used Jira to track user stories and monitor progress, helping us prioritize certain user stories and meet any deadlines.
  - <u>Communication:</u> We used Slack to communicate within our sub-team. This allowed us to communicate professionally, plan team meetings efficiently, and easily resolve issues. We also used Discord to communicate with our mentor/client TA. By creating a channel for our sub-team, we easily set up meetings and clarified any details.

- **What did not Work Well:**
  - <u>Testing:</u> Oftentimes, we would finish user stories and begin working on new ones without testing the functionality of what we recently completed. As a result, we faced bugs that were hard to trace.
  - <u>Role Delegation:</u> We successfully defined team roles and responsibilities, but we believe that we could adjust roles in our next sprint to fit our individual strengths.
  - <u>Meetings:</u> Our meetings were consistent, but we could have improved the content of our meetings to discuss obstacles that had kept us working long hours.

3. <u>Issues and Strategies for Improvement</u>

- **Primary Issues:**
  - <u>Testing:</u> As mentioned previously, testing was the main issue. Since the user stories we will focus on in the next sprint make up the bulk of the user interface, we want to ensure that we test consistently to prevent unanticipated bugs.

- ○ <u>Role Delegation:</u> As mentioned previously, we believe that we can optimize efficiency moving forward by re-delegating roles, for we found that some of us are better suited for specific roles than others which was slowing progress.

- **Strategies for Improvement:** Currently, our development process is mostly successful. However, the following strategies can enhance our development for increased efficiency.
  - ○ <u>Strategy One:</u> Our Jira board has a dedicated section for testing, though we refrained from using it. Moving forward, we plan to place user stories there to ensure that we test each user story.
  - ○ <u>Strategy Two:</u> We plan to re-delegate roles as follows:
    - ■ Scrum Master: Krish
    - ■ Product Owner: Ankit
    - ■ Developers: Charan, Sri, Abhi

4. <u>Conclusion</u>

Overall, our first sprint worked out well, better than we had expected it to turn out as it was the first time for many of us. We plan to continue many of the same development strategies with a couple of modifications to improve our process and deliver a high-quality finished project.

Ronak 3 - Project 1: Sprint 1 Demo Review

1. **<u>Sprint Overview</u>**

- Our first sprint occurred from 1/21/2025 to 2/4/2025.
- As a team, we accomplished the following:
    - Initialized the Project Structure and Set Up the GitHub
    - Created the Home App
    - Designed the Base Template
    - Created the Movies App
    - Configured the Database and Began Model Development
- As a team, we completed user stories based on:
    - Registering User Accounts
    - Managing Admins and Users
    - Adding and Editing Movie Information
    - Displaying Movie Information
    - Displaying About Page
- Contributions:
    - Krish: Implemented primary features into the website and facilitated scrum
    - Sri: Implemented primary features into the website
    - Ankit: Oversaw user stories and helped implement features into the website
    - Charan: Managed version control and project backlog on Jira
    - Abhi: Managed scrum documentation

2. **<u>Feedback from Mentor/Client TA</u>**

Product:
- **Feedback:**
    - Our TA approved of our current progress and believed we did well in developing the site's features, especially in the functionality where users can add and edit movie information (price, description, image, etc.). The implementation of basic CRUD operations for movie listings was smooth, and the UI provided a good user experience for adding and managing movie data.
    - However, our TA noted that the shopping cart and movie review features were not functional during our demo. Users were unable to add movies to the cart, view the total price, or proceed to checkout.
- **Rationale/Strategy:**
    - Our user stories for this sprint focused on establishing the basic structure of the application, particularly in enabling users to add, edit, and manage movie information. Since these features worked as expected, our TA considered our

progress satisfactory. The positive feedback shows that our team's approach to designing and developing functionality is effective, and plan to maintain the same strategy moving forward by adhering to scrum.
- Our TA was unable to use the shopping cart and movie reviews because we had not finished implementing them. The focus of our next sprint is to develop those features and finish deployment, so the application should be complete and working by then. During the next sprint, we plan to delegate the task of debugging to 1-2 individuals. After each functionality is added, we want them to test and report the observed successes and failures during our stand-ups.

Process:
- **Feedback:**
  - Our TA approved of our team's structured task delegation, especially in our use of Jira to distribute responsibilities across team members. Each person had a clear role, which helped streamline development.
  - Our stand-up meetings were effective in keeping track of progress, but our TA suggested that we encourage more discussion about any challenges we faced. Documenting accomplishments is great, but it is essential that we communicate and document issues as well.
- **Rationale/Strategy:**
  - Our TA supported our task delegation because moving tasks from the backlog to in-progress, and done helped drive tasks to completion effectively. We plan to continue dividing work into well-defined tasks to keep collaboration flowing among our team.
  - Our TA encouraged more discussion on challenges because we mentioned how as an individual, we spent lots of time trying to debug small errors on our own. Therefore, to make our stand-ups more effective, we will highlight any challenges that we have faced. If a problem is not unresolved, we will adhere to the principles outlined in our sprint planning and dedicate time after our meeting for a quick discussion. This will ensure that issues are addressed timely, reducing last-minute errors.

Ronak 3 - Project 1: Sprint 2 Planning

1. Scrum Roles and Additional Responsibilities

Scrum Positions:
> *Scrum Roles:*
>> Scrum Master: Krish Arora
>> Product Owner: Ankit Chandra
>> Developer: Charan Koyaguri, Sri Ritvik Maddireddy, Abhi Nookarapu

Changed Scrum Roles: Krish Arora swapped with Sri Ritvik Maddireddy.

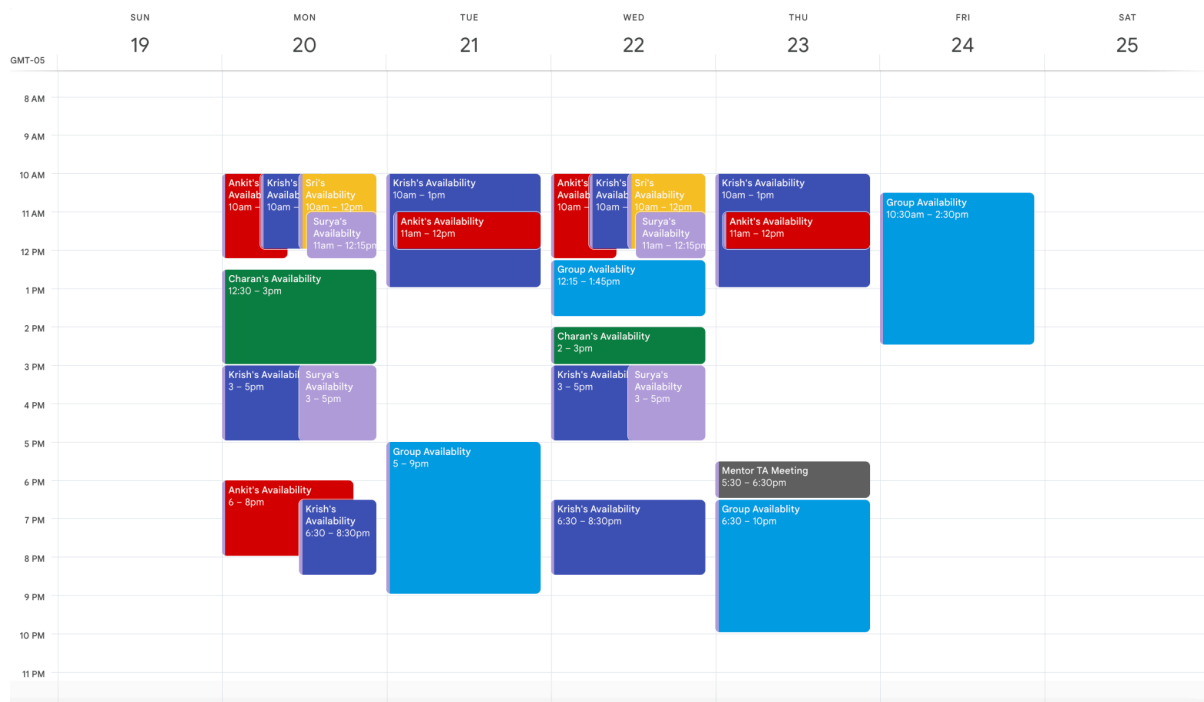**Design Development and Evaluation Positions:**
> *Roles:*
>> Full-Stack Developer: Ankit Chandra, Krish Arora
>> Front-End Developer: Abhi Nookarapu
>> Back-End Developer: Sri Ritvik Maddireddy, Charan Koyaguri

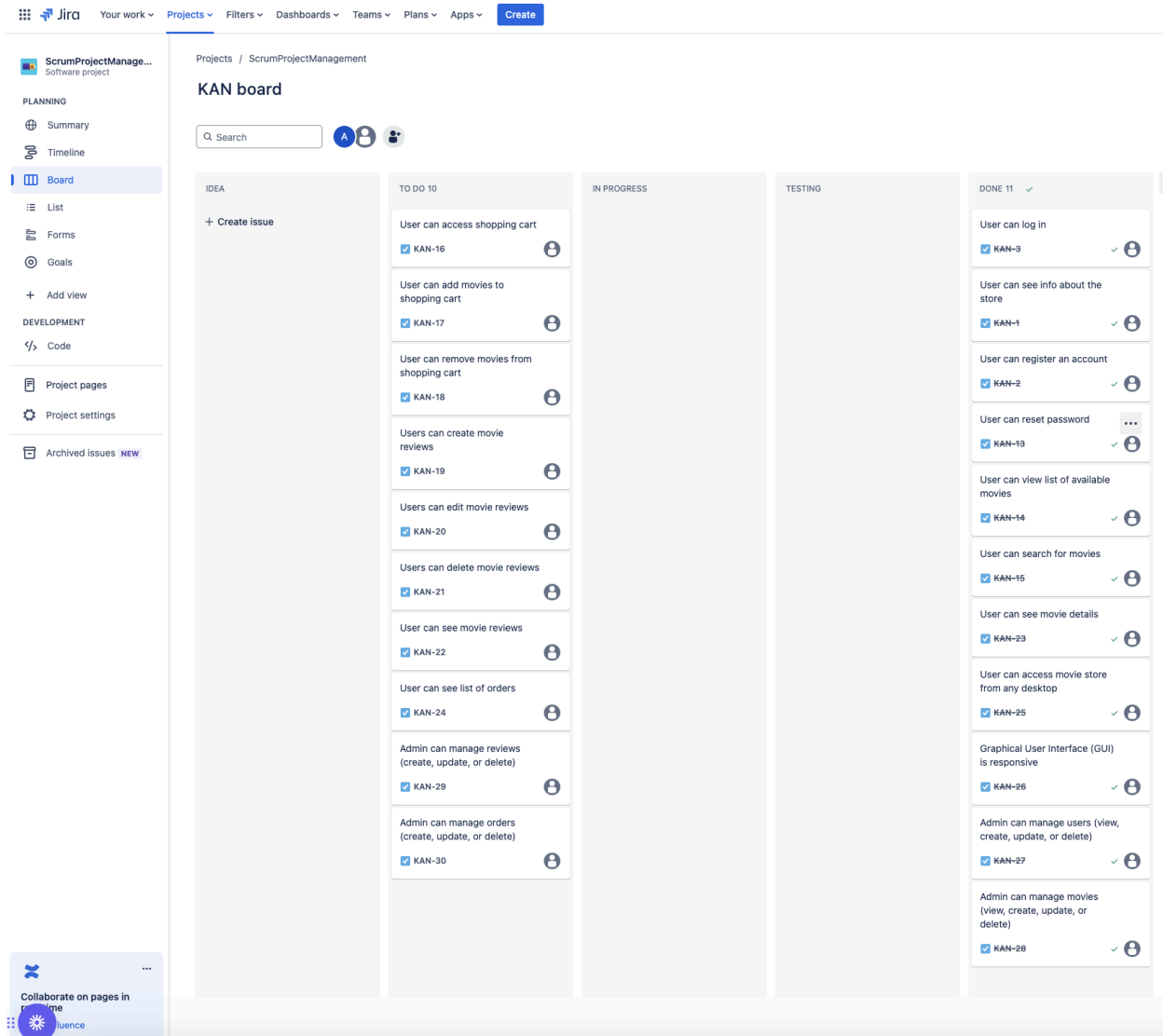Changed Roles: Abhi Nookarapu swapped with Krish Arora.

Shared Calendar:

Changes: Mentor TA meeting moved from Tuesdays 3:30 - 4:30 to Thursdays 5:30 - 6:30.

2. <u>User Stories and Backlog Presentation</u>

JIRA: https://georgiatechscrum.atlassian.net/

We primarily selected user stories related to reviews (create, update, or delete), orders (create, update, or delete), the shopping cart, and administration (managing reviews/orders) as our main focus. These stories are essential because they provide the application's core functionality, allowing users to interact meaningfully by submitting movie reviews, making purchases, and managing their orders. By addressing these features, we can meet one of the primary objectives of our application, allowing customers to engage with movie content and make orders/purchases.

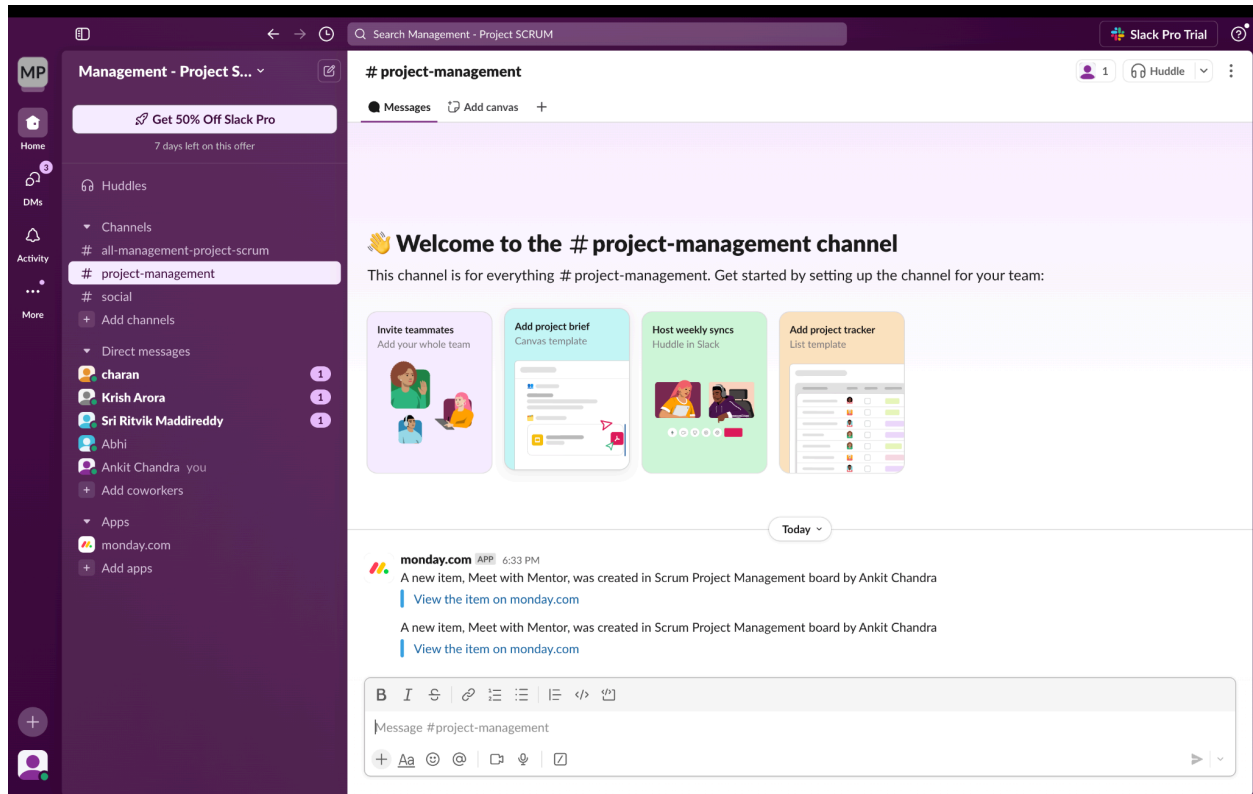3. **When to Meet the TA**

Weekly Check-In Times:
- Tuesday: 3:30 P.M. - 4:45 P.M. (In Class Office Hours)
- Thursday: 5:30 P.M. - 6:30 P.M. (CCB 267)

Changes: Mentor TA meeting moved from Tuesdays 3:30 - 4:30 to Thursdays 5:30 - 6:30.

4. **Staying in Touch**

We will continue using **Slack** and **Discord** to communicate with our mentor TA. We will also continue to raise any technical issues in **GitHub** and provide corresponding updates in the Slack channel. Furthermore, we will continue to discuss issues and disagreements in our weekly standup, as well as in our Slack channels. The Project Owner and Scrum Master will still lead this discussion with direct feedback from the developers. Our main decision-making process will remain the same, with all of us focusing on a user story and suggesting potential solutions/approaches. After discussion, the product manager will still sign off on the best approach, and the product manager will keep collaborating with the scrum master to assign tasks to each developer.

SLACK: https://managementpro-wsy7439.slack.com/

Daily Standup - Team 3

Date: 1/29/25
Krish/Ankit: Initialized GitHub Repository
Sri/Charan: Constructed Class Diagrams

January 30, 2025

@charan koyaguri Does Thursday 5:30pm to 7:30 work
Ronak 1/30/2025 12:03 PM
thursday's 5:30 work for me! again no meeting this week

👍 1   😊

@krisharora1 Daily Standup - Team 3 Date: 1/29/25 Krish/Ankit: Initialized GitHub Repository Sri/Charan: Constructed Class Diagrams
Ronak 1/30/2025 12:03 PM
yall can just make this a running document instead of posting here

February 5, 2025   NEW

krisharora1 2/5/2025 6:04 PM
Are we planning to meet this thursday?

Ronak 2/5/2025 8:48 PM
up to you guys, any questions/guidance needed?
we said 5:30 tentative correct?

February 6, 2025

krisharora1 2/6/2025 3:50 AM
We're good for now. If we have any questions we'll let you know.

👍 1   😊