**Assignment 3: Project Boards**

44618-Section1-Group4

1. **Paste a clickable link to your group board:**

**View1:** [**https://github.com/users/Meghanaa020299/projects/2/views/1**](https://github.com/users/Meghanaa020299/projects/2/views/1)

**View2:** [**https://github.com/users/Meghanaa020299/projects/2/views/2**](https://github.com/users/Meghanaa020299/projects/2/views/2)

1. **Paste a clickable link to your group repository (or attach your Word doc):**

**Project Group Repo:** [**https://github.com/Meghanaa020299/assignment3**](https://github.com/Meghanaa020299/assignment3)

1. **About how many hours did the group spend on this assignment:**

We took Approximately **3** hours as a group.

1. **In general, how did it go:**

Kanban boards in GitHub are widely used for project management and task tracking purposes, and many teams find them effective in improving their workflow and collaboration. Here are some general observations about using Kanban boards in GitHub:

Visual Organization: Kanban boards provide a visual representation of tasks, allowing teams to see the progress and status of work at a glance. This visual organization helps in better understanding the overall project and individual tasks.

Collaborative Work: Kanban boards facilitate collaboration among team members. They can assign tasks to individuals, leave comments or updates on specific tasks, and mention or tag other team members to enhance communication and coordination.

Transparency and Accountability: Kanban boards promote transparency by making the project's status and progress visible to all team members. This fosters accountability and ensures that everyone is aware of their responsibilities and the status of their tasks.

1. **What was the most difficult part:**

Based on common challenges that we encounter while using Kanban Boards, here are a few difficulties that we faced:

Workflow Alignment: Adapting the Kanban Board to match the team's existing workflow can be a complex task. Integrating the board with the team's established processes and ensuring smooth collaboration among team members may require adjustment and communication.

Maintaining Discipline: Kanban emphasizes limiting work in progress (WIP) and maintaining a balanced workload. Encouraging team members to adhere to WIP limits and resist the temptation to take on too many tasks simultaneously can be a continuous challenge.

Prioritization and Time Management: Effectively prioritizing tasks and managing deadlines within the Kanban Board can be difficult, especially when multiple tasks are vying for attention. Determining which tasks to focus on and ensuring timely completion require careful planning and decision-making.

1. **What was most interesting:**

The most intriguing aspect of GitHub project boards is their ability to provide a visual representation of project tasks, progress, and status.

1. **What are the best parts of your group's board** **(what are you most proud of):**The best parts of a group's board can vary depending on the nature of the project and the specific needs and preferences of the group members.

However, here are some of the most proud general aspects that can make a group's board valuable and effective.

* Clear Task Organization
* Real-Time Updates
* Visual Representation:
* Integration with Other Tools

**Part B**

Create a new GitHub repo for your group with a README.md file.

**PartB Repo Link** : <https://github.com/Meghanaa020299/-ProjectBoard0104>

1. **Project Links. Include the names of each group member with clickable links to their GitHub username for each member of your group. Include a clickable link to your project board.**

**Project Group Repo:** [**https://github.com/Meghanaa020299/assignment3**](https://github.com/Meghanaa020299/assignment3)

A screenshot of a computer

Description automatically generated

**Figure 1: PartA Github Project**

**Group Members Github Profile Links:**

* 1. Mahima Chowdary Gollamudi: <https://github.com/MahimaChowdaryG>
  2. Suresh Sindam: <https://github.com/sindamsuresh>
  3. Nikhitha Kasuvojula: <https://github.com/Nikki010101>
  4. Meghanaa Malleboina: <https://github.com/Meghanaa020299>
  5. Jayachandra Eladandi: <https://github.com/jayachandraeladandi>
  6. Jyothsna Naredla: <https://github.com/Jyothsnsa>
  7. Uday Kiran Kolla: <https://github.com/udaykirankolla>

**Project Board Links :**

**View1:** [**https://github.com/users/Meghanaa020299/projects/2/views/1**](https://github.com/users/Meghanaa020299/projects/2/views/1)

A screenshot of a computer

Description automatically generated

**Figure 2: Project Board View 1**

**View2:** [**https://github.com/users/Meghanaa020299/projects/2/views/2**](https://github.com/users/Meghanaa020299/projects/2/views/2)

A screenshot of a computer

Description automatically generated

**Figure 3: Project Board View 2**

1. **Working with Project Boards. Describe what you learned about organizing various stories in GitHub Projects and using the Kanban board to manage your group project.**

Organizing Stories in GitHub Projects:

* Structuring Tasks: GitHub Projects allow you to create columns representing different stages of work, such as "To Do," "In Progress," and "Done." You can organize your stories by dragging and dropping them into the appropriate columns to reflect their current status.
* Labels and Assignees: GitHub Projects enable the use of labels and assignees to provide additional context and assign responsibility for each story. Labels can help categorize stories based on priority, type, or other relevant attributes, while assignees indicate who is responsible for completing each task.
* Milestones and Epics: GitHub Projects offer the ability to create milestones and epics, which allow you to group related stories together. Milestones represent specific phases or timelines within a project, while epics provide a higher-level overview of larger features or themes.

Using Kanban Board to Manage Group Projects:

* Visual Workflow: Kanban boards provide a visual representation of the workflow, helping the team easily understand the status of each task. It allows you to visualize the progress of work and identify potential bottlenecks or areas requiring attention.
* Work in Progress (WIP) Limits: Kanban emphasizes limiting work in progress to prevent overloading team members and maintain focus. By setting WIP limits for each column, you ensure a balanced workload and encourage the completion of tasks before taking on new ones.
* Continuous Improvement: Kanban promotes continuous improvement through the regular review and optimization of the workflow. Team members can collaborate to identify areas for improvement, make adjustments to the process, and enhance overall efficiency and productivity.
* Team Collaboration: Kanban boards facilitate collaboration by providing transparency and visibility into the work being done. Team members can easily communicate, share updates, and coordinate efforts, fostering effective teamwork and alignment.
* Flexibility and Adaptability: Kanban boards allow for flexibility in managing changing priorities and unexpected events. New tasks can be added or reprioritized, and the board can be adjusted accordingly to reflect the evolving needs of the project.

By leveraging GitHub Projects and adopting a Kanban approach, teams can streamline their project management, improve communication, and enhance productivity in a visual and collaborative manner.

1. **Possible Applications. Explain how GitHub Projects and Kanban can help your group in future projects like your MS-ACS Directed Graduate Project or other group projects.**

Here's how they can help:

* Visual Planning and Organization:
* Task Management and Tracking:
* Collaborative Work:
* Prioritization and Focus:
* Adaptability and Iterative Improvement:
* Documentation and History:

The combination of GitHub Projects and Kanban methodology empowers our group to effectively plan, organize, track, and collaborate on projects. It fosters efficient task management, enhances teamwork, enables adaptability, and provides a visual representation of the project's progress. These tools will be instrumental in successfully executing your MS-ACS Directed Graduate Project or any other group projects you undertake, improving productivity and facilitating the achievement of project objectives.