Minecraft Add-ons

IT 4983 Capstone W01

Minecraft Add-ons Team 3

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Agenda

1. Project Summary
2. Technologies Used
    - Source Management
3. Milestone 3 Assessment
    - Completed Plug-in Demo
    - Discord Integration Demo
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Project Summary

Project Site: https://sites.google.com/view/minecraftteam3/home

GitHub: https://github.com/Reeceboy1299/KSUMinecraftPluginGroup3

Milestone 1	Milestone 2	Milestone 3
• Research Minecraft plug-in (paper) / mod (fabric) development. • Draft architecture for add-on. • Set-up test environment on PC.	• Implement chat commands. • Set-up plug-in to connect with database.	• Completed plug-in with polished UI and all required information stored in the database. • Push in-game tickets to Discord channel

Technologies Used

IntelliJ IDEA

- The team's main code editor.
- Easily pairs with GitHub for updates.

MariaDB

- Our team decided to use MariaDB as our main database management system for the plug-in.
- MariaDB offered good security features.
- MariaDB delivered superior scalability and faster query execution compared to MySQL.

Source Management

Why did we choose GitHub?

Application Repo: https://github.com/Reeceboy1299/KSUMinecraftPluginGroup3

- Our team decided to use GitHub as a repository because it is the most familiar application to us. However, there are numerous reasons why GitHub is a trustworthy and dependable application.
    1. GitHub is free and great for open-source applications.
    2. GitHub is a repository that enables collaboration and management.
    3. GitHub makes it easy to track changes and maintain version integrity.
    4. GitHub integrates well with other applications.

Additional Information: https://docs.github.com/en/get-started/quickstart/hello-world

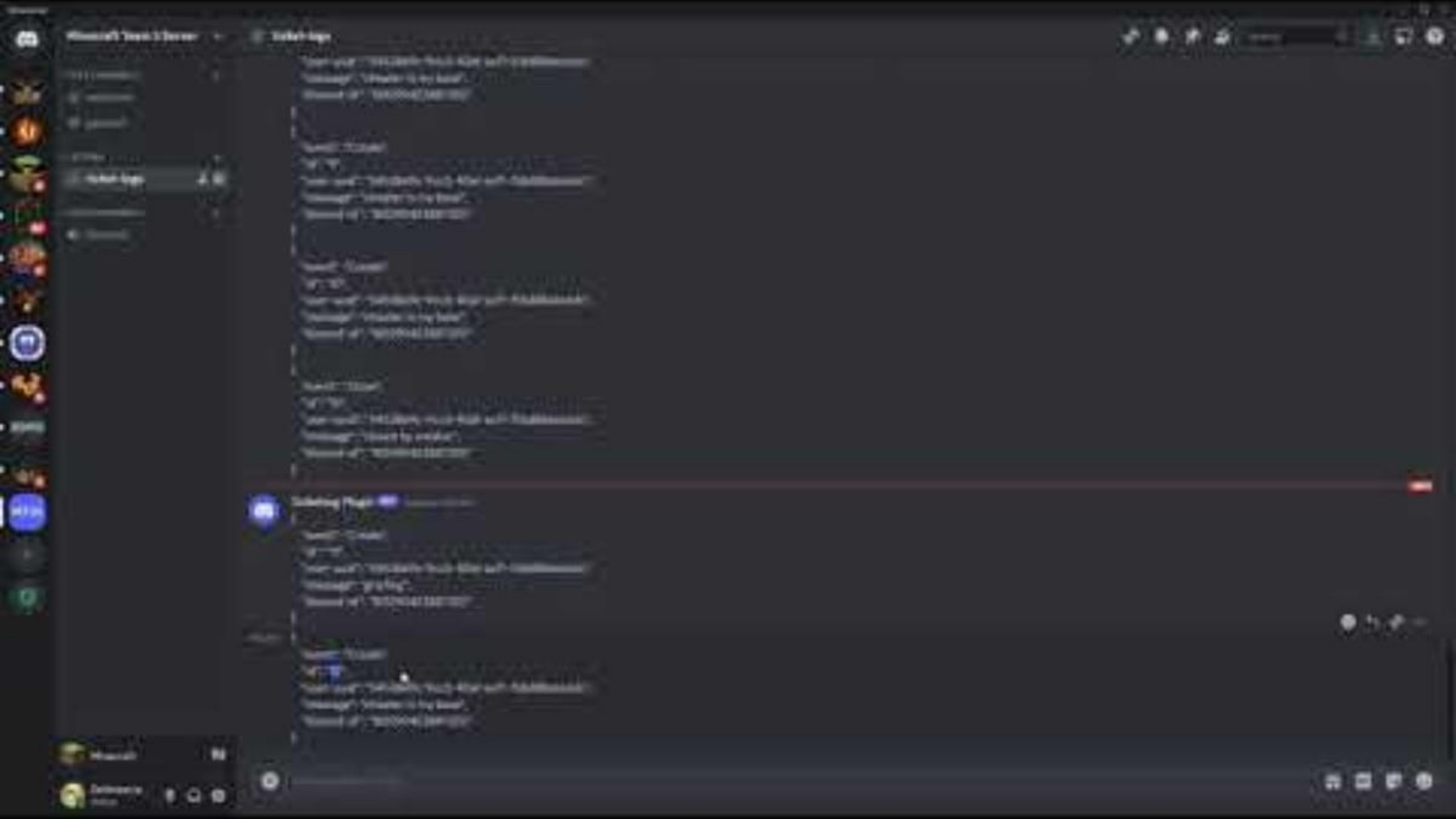
Milestone 3 Assessment

- We had 2 main objectives from our sponsor in Milestone 3.
- Objectives for Milestone 3:
  - Completed plug-in with polished UI and all required information stored in the database - Completed
  - Push in-game tickets to Discord channel - Completed

Completed Plug-in Demo

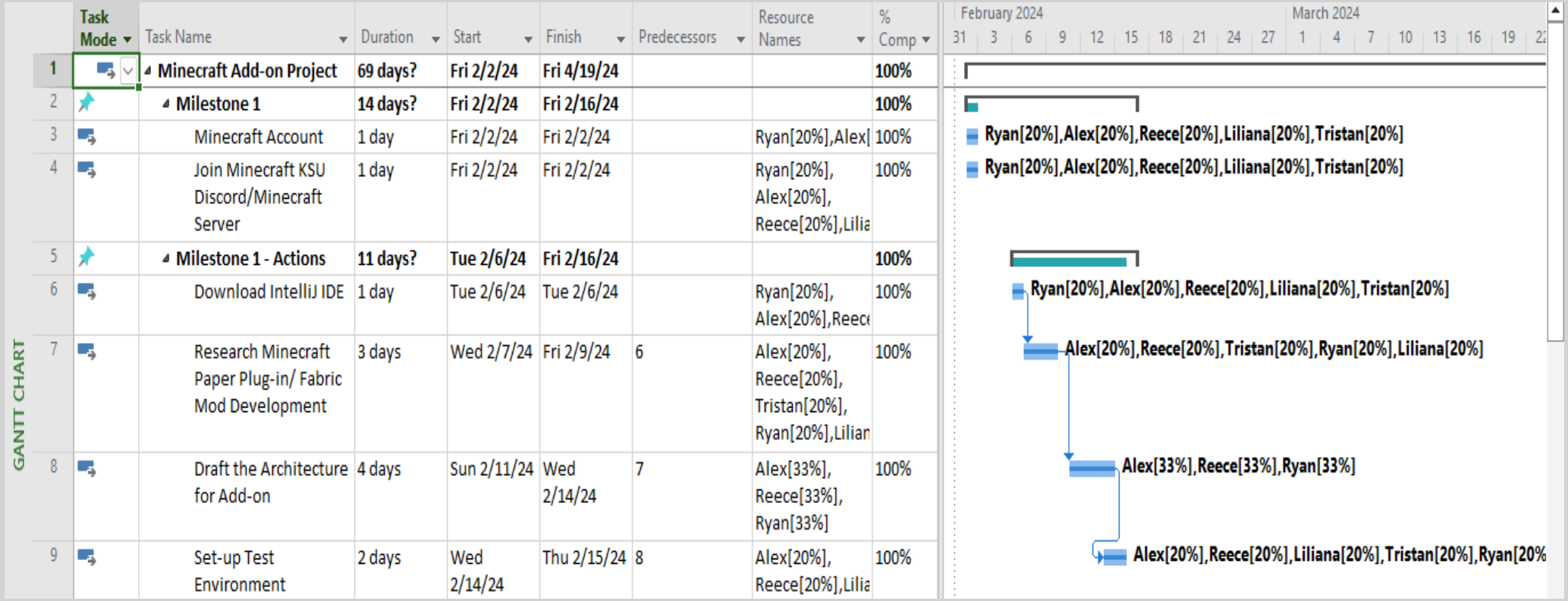
Ticket claimed successfully!
List of all tickets (Hover for descriptions)
- ID: 1 | Reeceboy1299 | Created:
2024-04-12 11:06:51 | claimed by
Reeceboy1299
- ID: 2 | Reeceboy1299 | Created:
2024-04-12 16:33:57 | open
- ID: 3 | Reeceboy1299 | Created:
2024-04-19 15:10:14 | claimed by
Reeceboy1299

Discord Integration Demo



Milestone 1 Gantt Chart

Gantt Chart thru Milestone 1 completion.

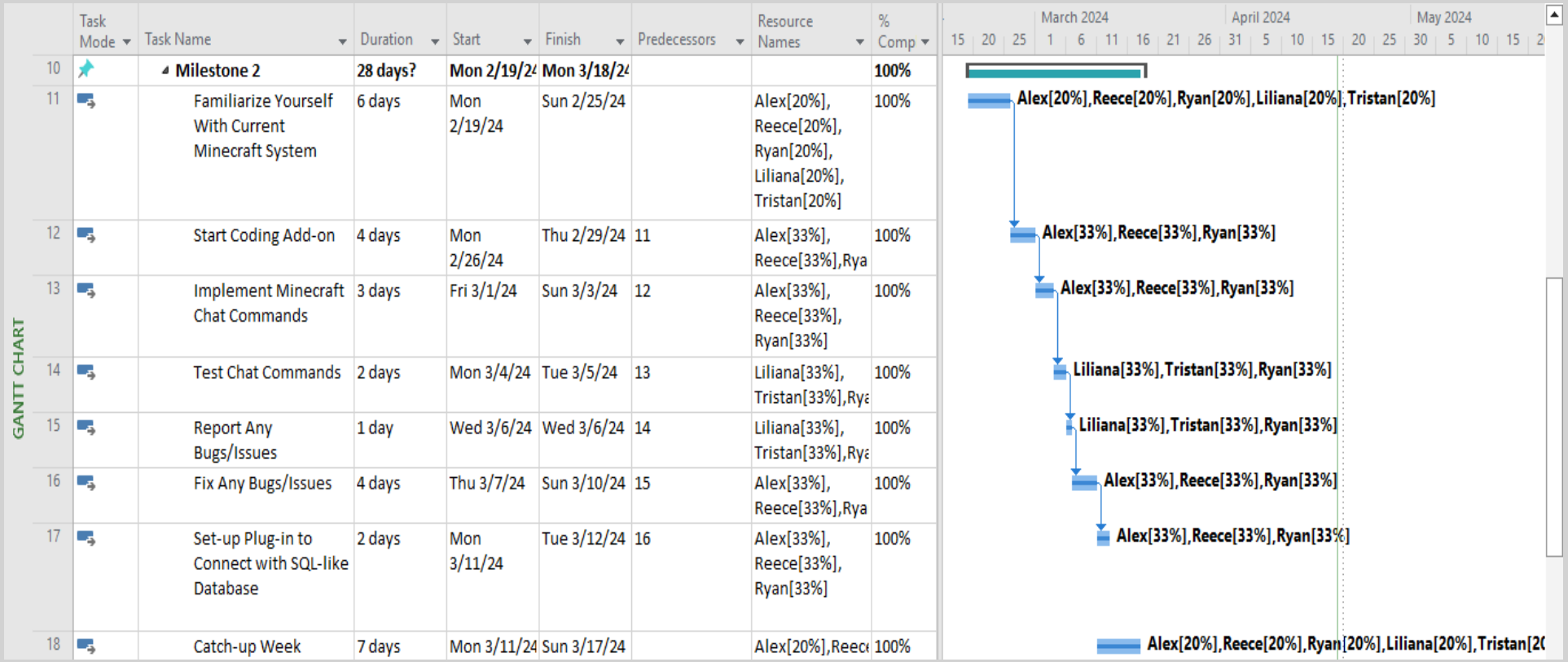


GANTT CHART

	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Comp
1		**Minecraft Add-on Project**	**69 days?**	**Fri 2/2/24**	**Fri 4/19/24**			**100%**
2		**Milestone 1**	**14 days?**	**Fri 2/2/24**	**Fri 2/16/24**			**100%**
3		Minecraft Account	1 day	Fri 2/2/24	Fri 2/2/24		Ryan[20%],Alex[	100%
4		Join Minecraft KSU Discord/Minecraft Server	1 day	Fri 2/2/24	Fri 2/2/24		Ryan[20%], Alex[20%], Reece[20%],Lilia	100%
5		**Milestone 1 - Actions**	**11 days?**	**Tue 2/6/24**	**Fri 2/16/24**			**100%**
6		Download IntelliJ IDE	1 day	Tue 2/6/24	Tue 2/6/24		Ryan[20%], Alex[20%],Reec	100%
7		Research Minecraft Paper Plug-in/ Fabric Mod Development	3 days	Wed 2/7/24	Fri 2/9/24	6	Alex[20%], Reece[20%], Tristan[20%], Ryan[20%],Lilian	100%
8		Draft the Architecture for Add-on	4 days	Sun 2/11/24	Wed 2/14/24	7	Alex[33%], Reece[33%], Ryan[33%]	100%
9		Set-up Test Environment	2 days	Wed 2/14/24	Thu 2/15/24	8	Alex[20%], Reece[20%],Lilia	100%

Milestone 2 Gantt Chart

Gantt Chart thru Milestone 2 completion.

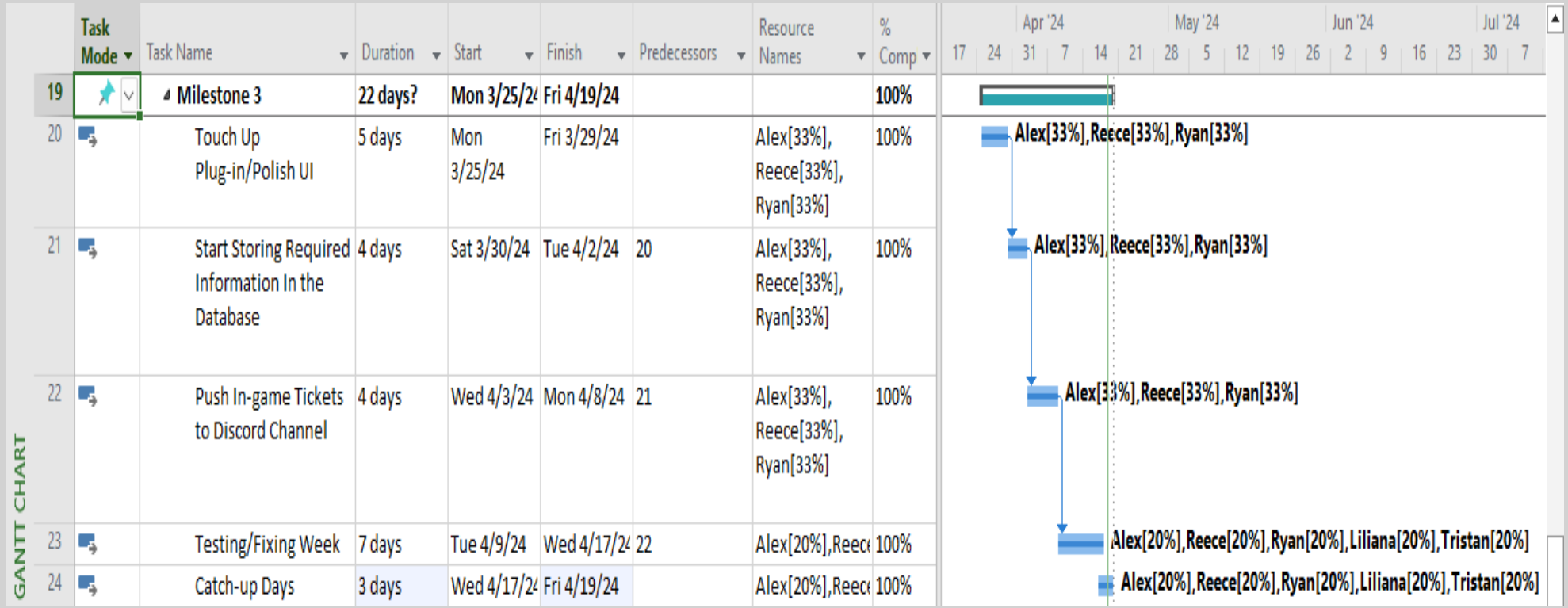


GANTT CHART

	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Comp
10		**Milestone 2**	**28 days?**	**Mon 2/19/24**	**Mon 3/18/24**			**100%**
11		Familiarize Yourself With Current Minecraft System	6 days	Mon 2/19/24	Sun 2/25/24		Alex[20%], Reece[20%], Ryan[20%], Liliana[20%], Tristan[20%]	100%
12		Start Coding Add-on	4 days	Mon 2/26/24	Thu 2/29/24	11	Alex[33%], Reece[33%],Rya	100%
13		Implement Minecraft Chat Commands	3 days	Fri 3/1/24	Sun 3/3/24	12	Alex[33%], Reece[33%], Ryan[33%]	100%
14		Test Chat Commands	2 days	Mon 3/4/24	Tue 3/5/24	13	Liliana[33%], Tristan[33%],Rya	100%
15		Report Any Bugs/Issues	1 day	Wed 3/6/24	Wed 3/6/24	14	Liliana[33%], Tristan[33%],Rya	100%
16		Fix Any Bugs/Issues	4 days	Thu 3/7/24	Sun 3/10/24	15	Alex[33%], Reece[33%],Rya	100%
17		Set-up Plug-in to Connect with SQL-like Database	2 days	Mon 3/11/24	Tue 3/12/24	16	Alex[33%], Reece[33%], Ryan[33%]	100%
18		Catch-up Week	7 days	Mon 3/11/24	Sun 3/17/24		Alex[20%],Reec	100%

Milestone 3 Gantt Chart

Gantt Chart thru Milestone 3 completion.



	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Comp
19		**Milestone 3**	**22 days?**	**Mon 3/25/24**	**Fri 4/19/24**			**100%**
20		Touch Up Plug-in/Polish UI	5 days	Mon 3/25/24	Fri 3/29/24		Alex[33%], Reece[33%], Ryan[33%]	100%
21		Start Storing Required Information In the Database	4 days	Sat 3/30/24	Tue 4/2/24	20	Alex[33%], Reece[33%], Ryan[33%]	100%
22		Push In-game Tickets to Discord Channel	4 days	Wed 4/3/24	Mon 4/8/24	21	Alex[33%], Reece[33%], Ryan[33%]	100%
23		Testing/Fixing Week	7 days	Tue 4/9/24	Wed 4/17/24	22	Alex[20%],Reece	100%
24		Catch-up Days	3 days	Wed 4/17/24	Fri 4/19/24		Alex[20%],Reece	100%

Reflections

- Challenges:
  - Working around various schedules.
  - Changing software during the project (MySQL changed to MariaDB).
  - Agreeing on which database software to use.

- Lessons Learned:
  - The importance of communication and working together as a group to ensure project deadlines and deliverables were met.
  - Choosing the right tool for the task at hand can make all the difference.

Questions?