Web Programming Project

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DIN23SP
Degree Programme in Information Technology

- *Members & Roles*

Yingcai Zhao: product owner, scrum master, UI designer, developer(front-end);

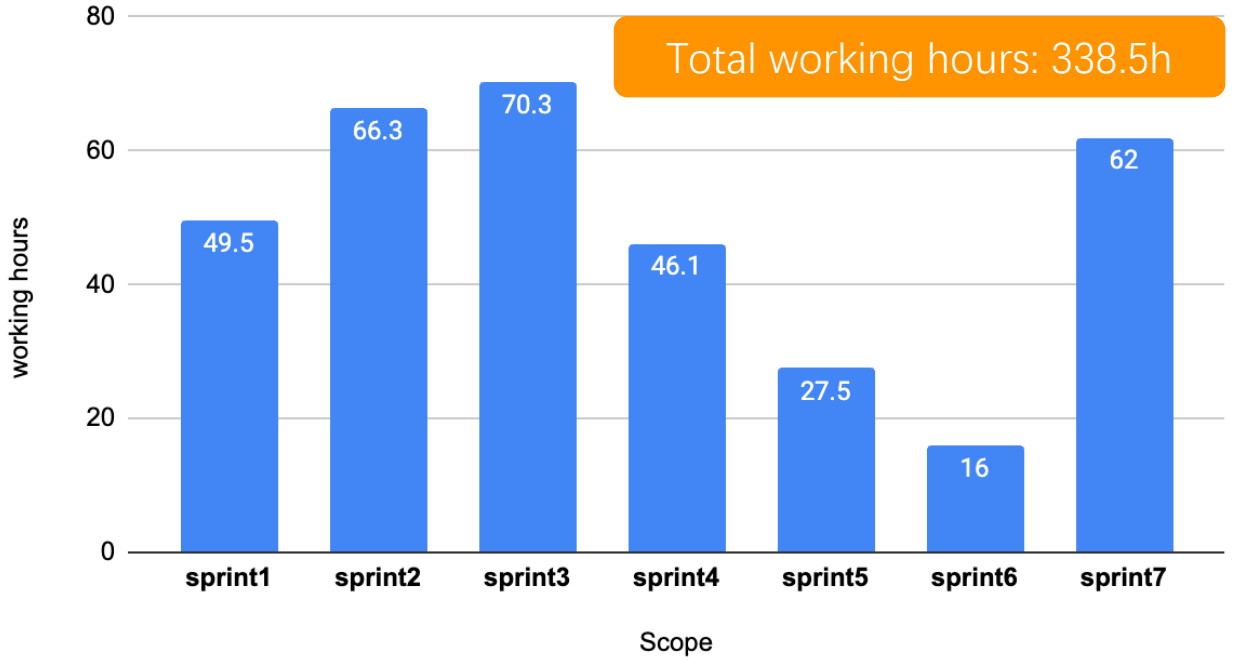

Linna Hao: developer(front-end), scrum master, tester;
Zhiying Huang: developer(front-end), tester;

Taisheng Chen: developer(back-end), tester;
Eaint Mon: developer(back-end), tester;

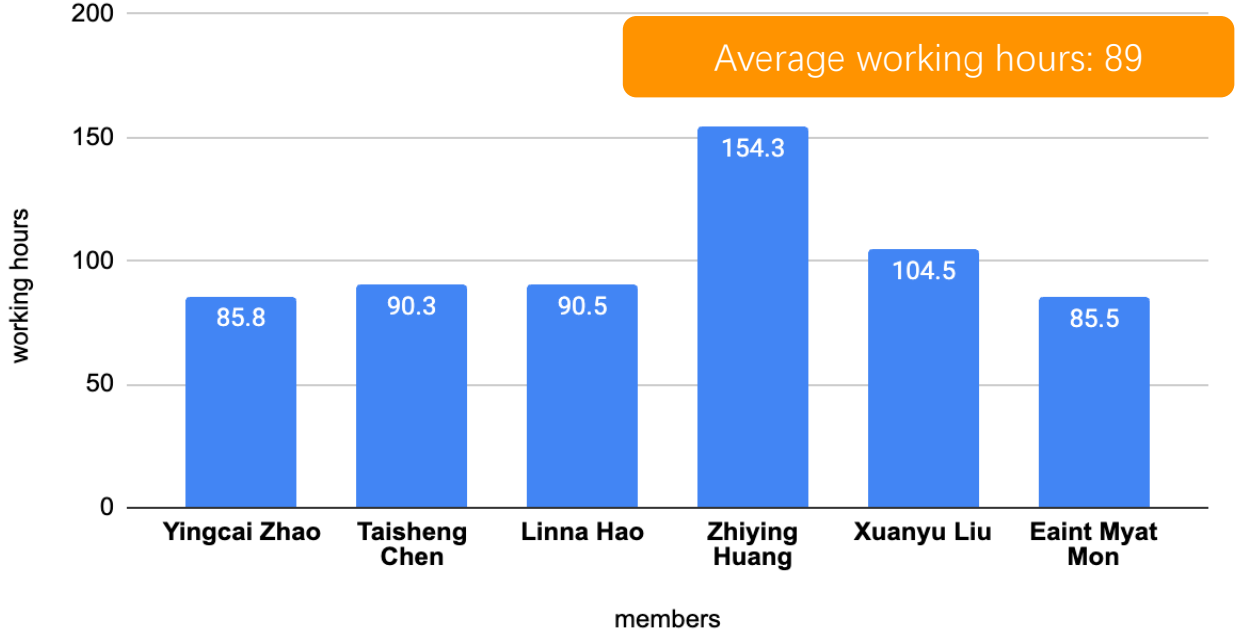
Xuanyu Liu: developer(full-stack), scrum master, tester;

Scope and Hours counting

*Data counting stopped at 1st May.

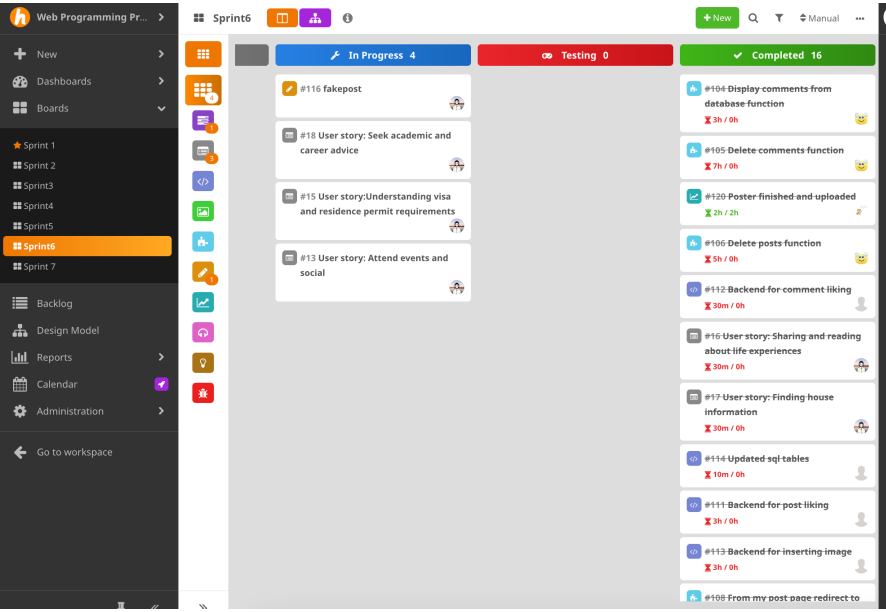


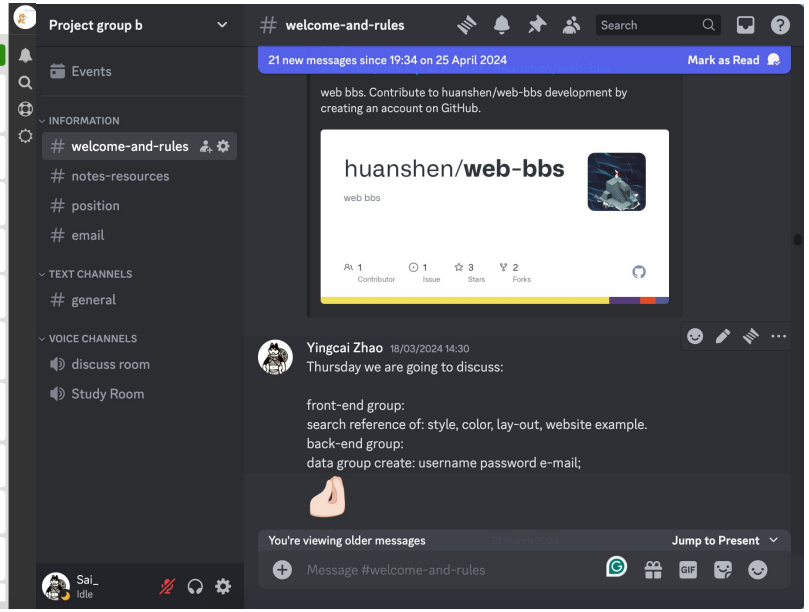
Members Working Hour counting

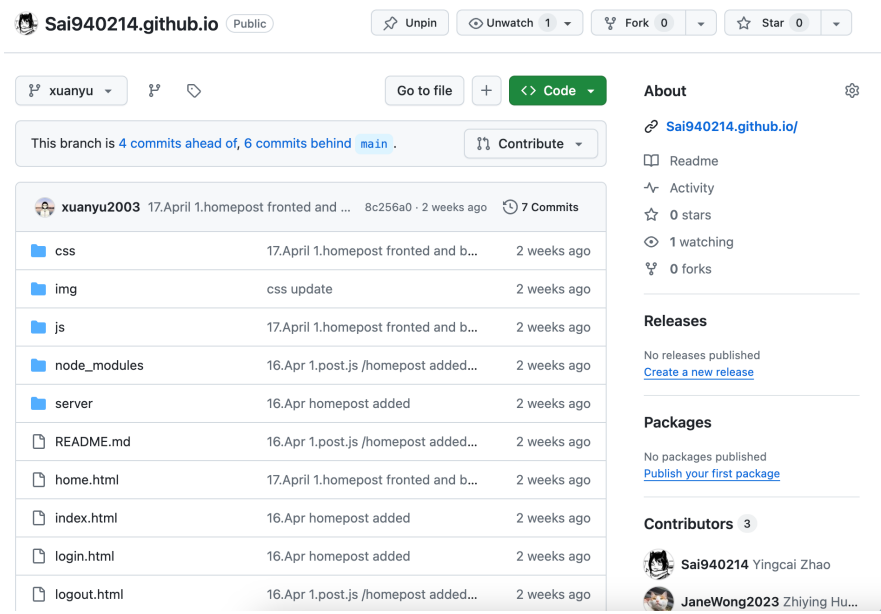


- ## *Team Collaboration Tools:*

We use Discord, hacknPlan, and GitHub for project management.







Hacknplan:

- Confirm work tasks for each sprint;
- Adjustment of project schedule

Discord:

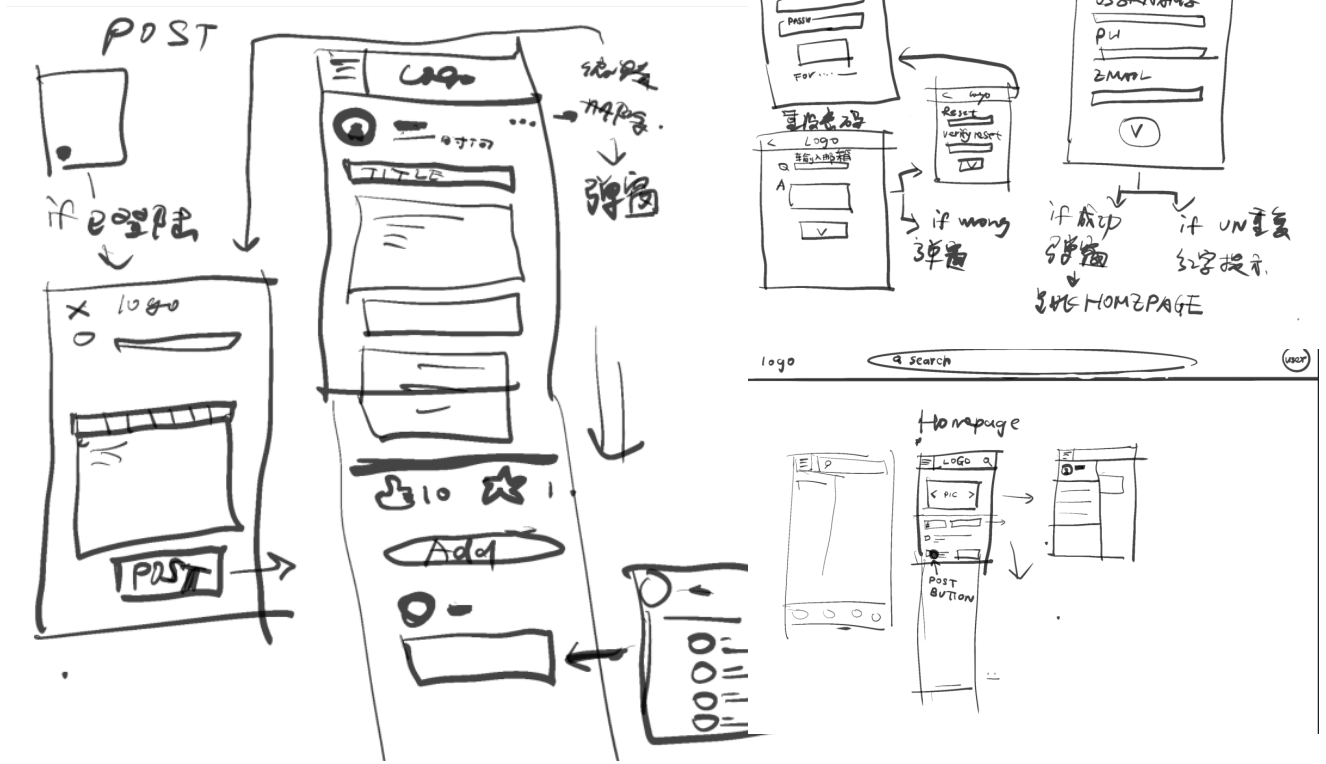
- Daily work discussions;
- Weekly Task Updates;
- Members Q&A;

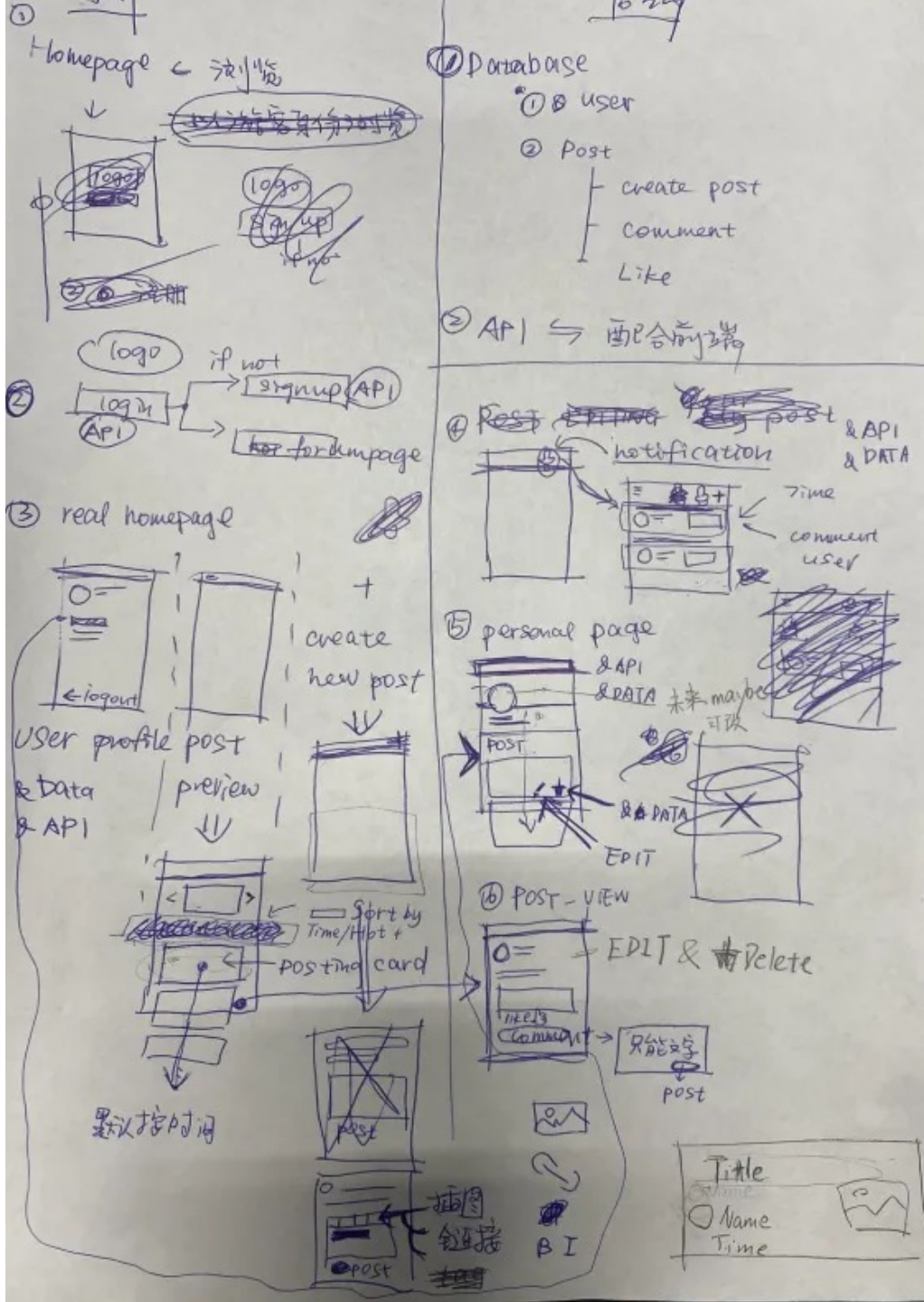
Github:

- Use branches for different parts of work;
- Synchronization of project features;
- Version control;

- *Methodology and Tech Stack*

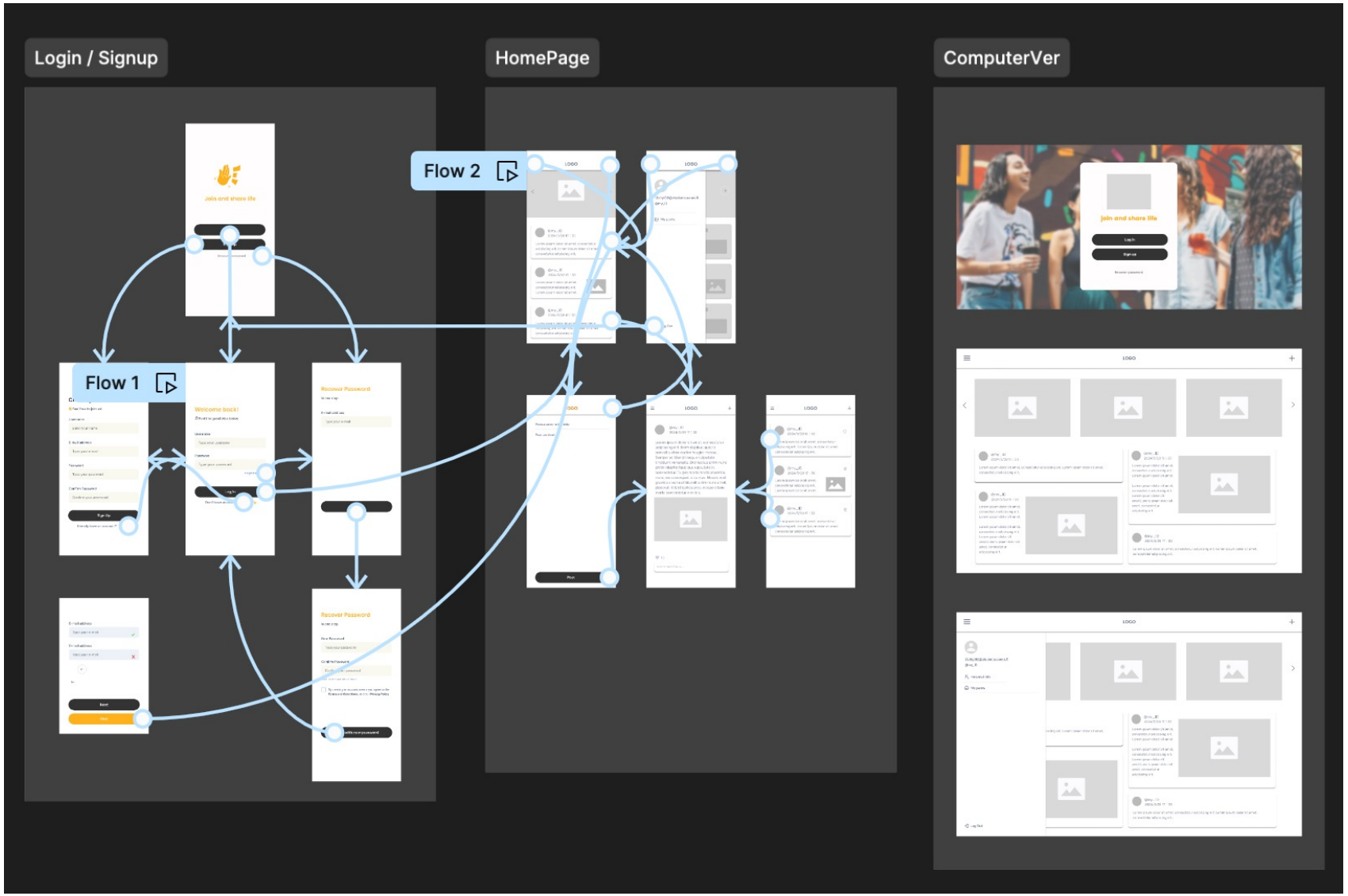
During the start-up phase of the project, we find references, clarified the theme and design direction of the forum through group discussions. The final decision was to build a light-weight forum for international students to share their daily life.





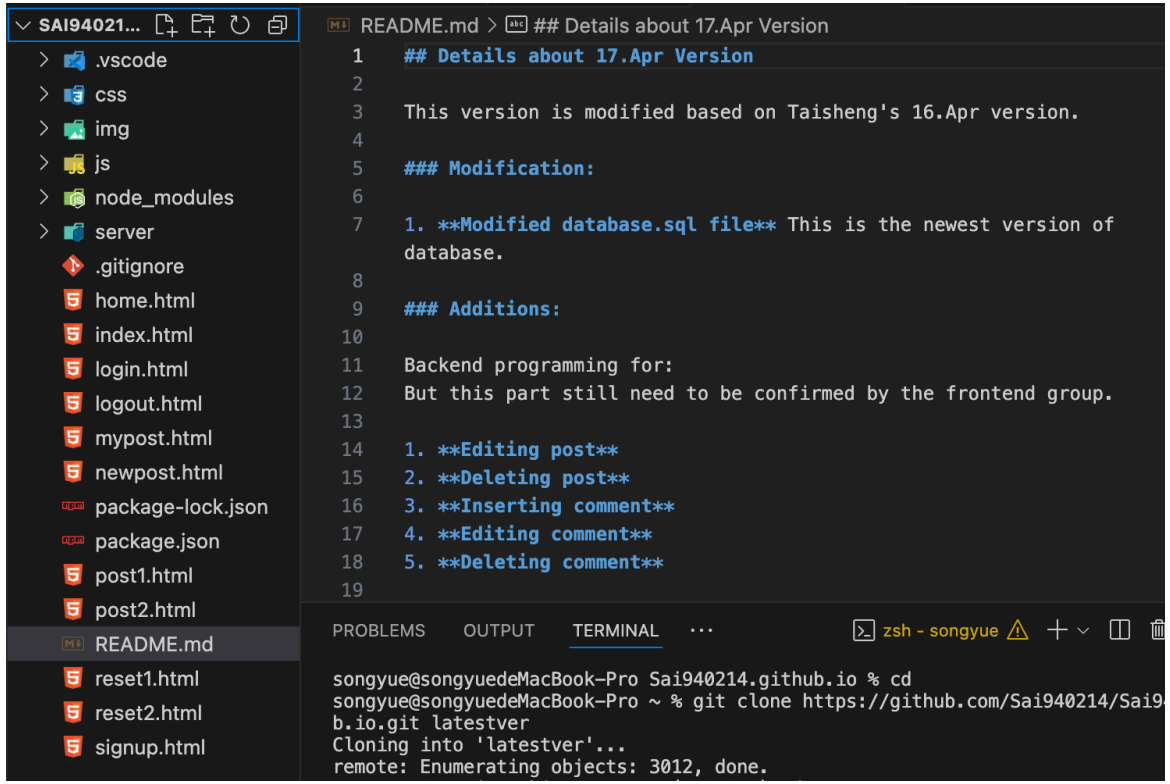
- *Methodology and Tech Stack*

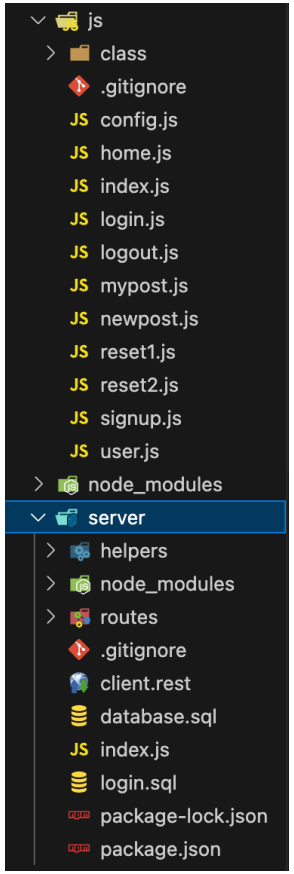
Figma was used to complete a comprehensive UI design for both mobile and desktop.

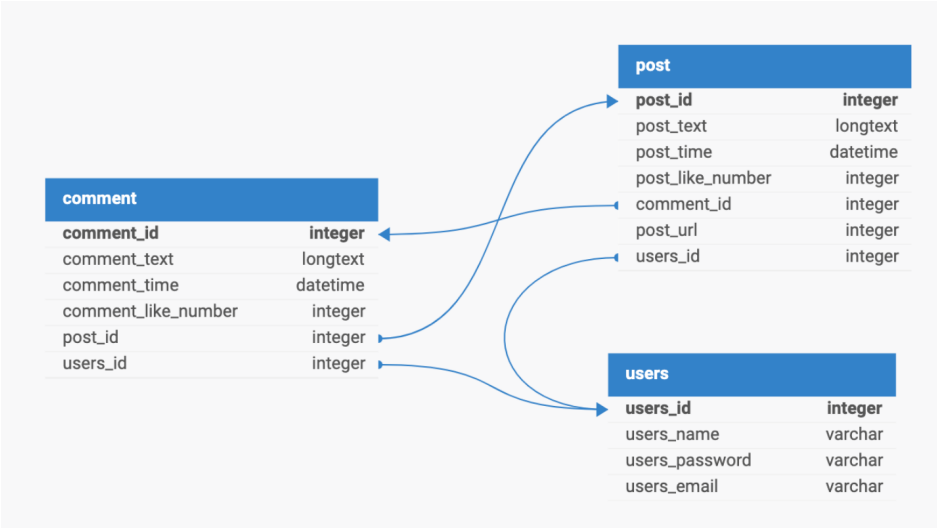


- *Methodology and Tech Stack*

The front-end uses HTML, CSS and JavaScript,
The back-end is built based on JavaScript and database technology.





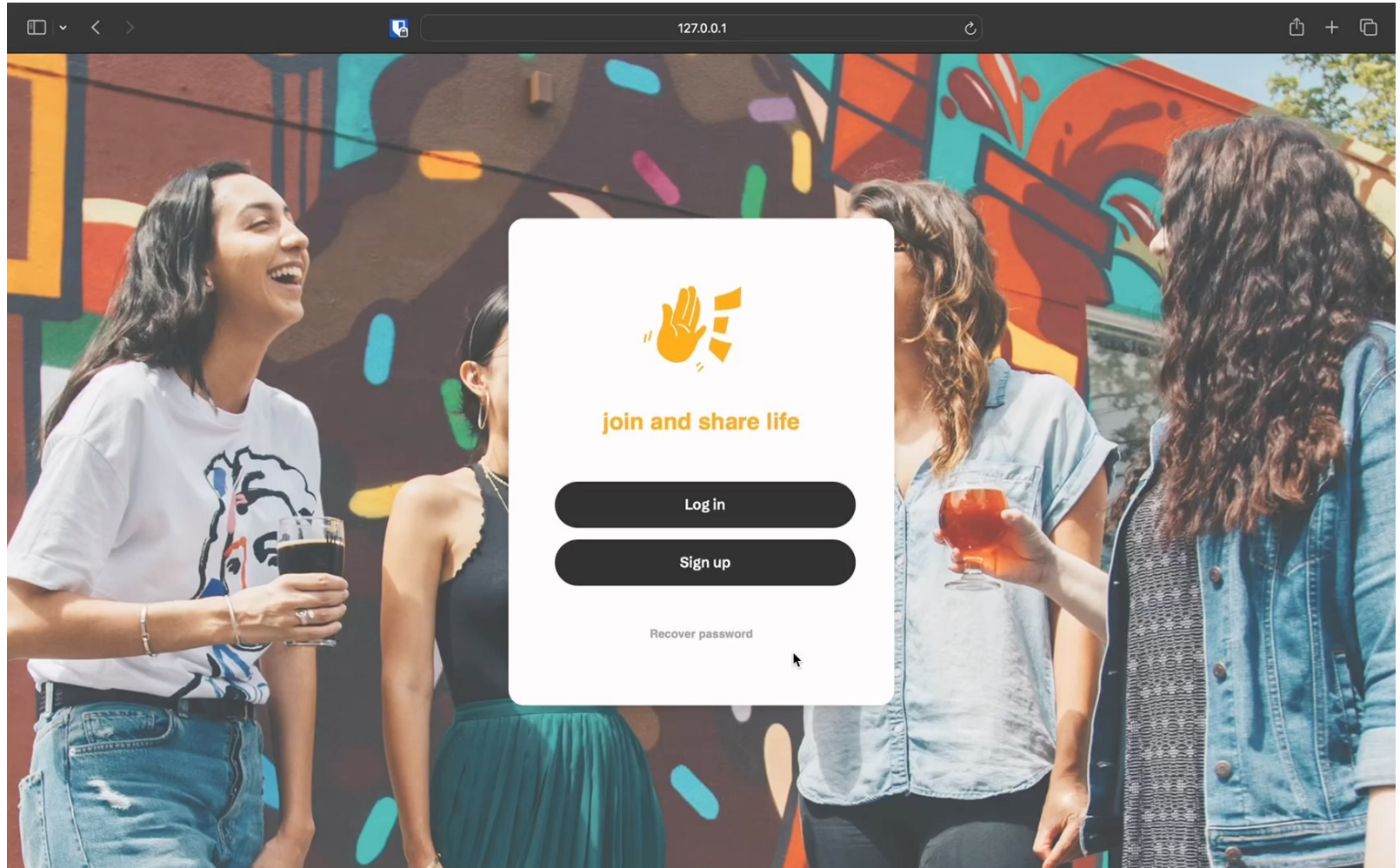


We linked the user data and database through API interface, and carried out several rounds of debugging to ensure that the system can run stably in various situations.

- *Results*

The aim of this project is to develop a lightweight online forum, the main language of which is English, designed for communication and information share among international students in Finland.

The core functions of the forum cover user registration, login, password reset, content sharing, posting and commenting. We are committed to realizing an environment where all registered users can post and edit freely, while ensuring a lightweight and user-friendly interface design.



- *Successes and challenges*

· *Success Points:*

We have basically completed our goal and the points we are most proud of are:

1. Frontend-Backend Separation

Clear Technical Architecture:
Utilizing a frontend-backend separation architecture, which decouples frontend and backend logic, reducing code problems and enhancing system flexibility.

Standardized Interfaces:
Defining clear standards allows independent working, which will achieving more efficient working processes.

2. User Experience Optimization

User-Friendly Interface:
Designing intuitive and easy-to-use interfaces considering user needs and behavior patterns, enabling users to easily open and navigate.

Encryption and Identity Verification:
We using mechanisms to ensure the security and privacy of user data, enhancing user trust and satisfaction.

c:
Ensuring the website can displaying well on different devices, whether it's PC or mobile, providing a consistent user experience.

- *Successes and challenges*

· Challenges:

Technical difficulties

Learning a new programming language or framework, solving more and more emerge code bugs. These things can have bad effects on teamwork.

Synchronization challenges

Different members may have different schedules and rhythms, making it difficult to find common working hours.

Also, members have different ways on how to finish tasks, which may lead to conflicts or delays in the workflow.

methods:

* Make team roles more flexiable: Encourage team members to find consensus and develop solutions together to ensure that the team as a whole is moving toward a common goal.

* Emphasize effective communication and setting clear work objectives to ensure information sharing and understanding among team members.

* Flexibility and Compromise: Maintain flexibility in dealing with disagreements, try to understand other members, and make compromises when necessary to promote teamwork.




- *Learning Skills*

·Technical Learning:
Learned how to use specific programming languages, framework or tool to create web pages and acquired basic front-end development skills.

·Design Learning:
Learned how to design attractive and easy-to-use web pages, including layout design, color matching, font selection, etc.

·Teamwork Learning:
Learned the importance of time management and task management, how to communicate and coordinate with members and solving problems that appears in the process of cooperation.




Thanks for all my team members and people offered help to us!