



CAPSTONE PROJECT REPORT

Report 4 – Software Design Document

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I. Record of Changes

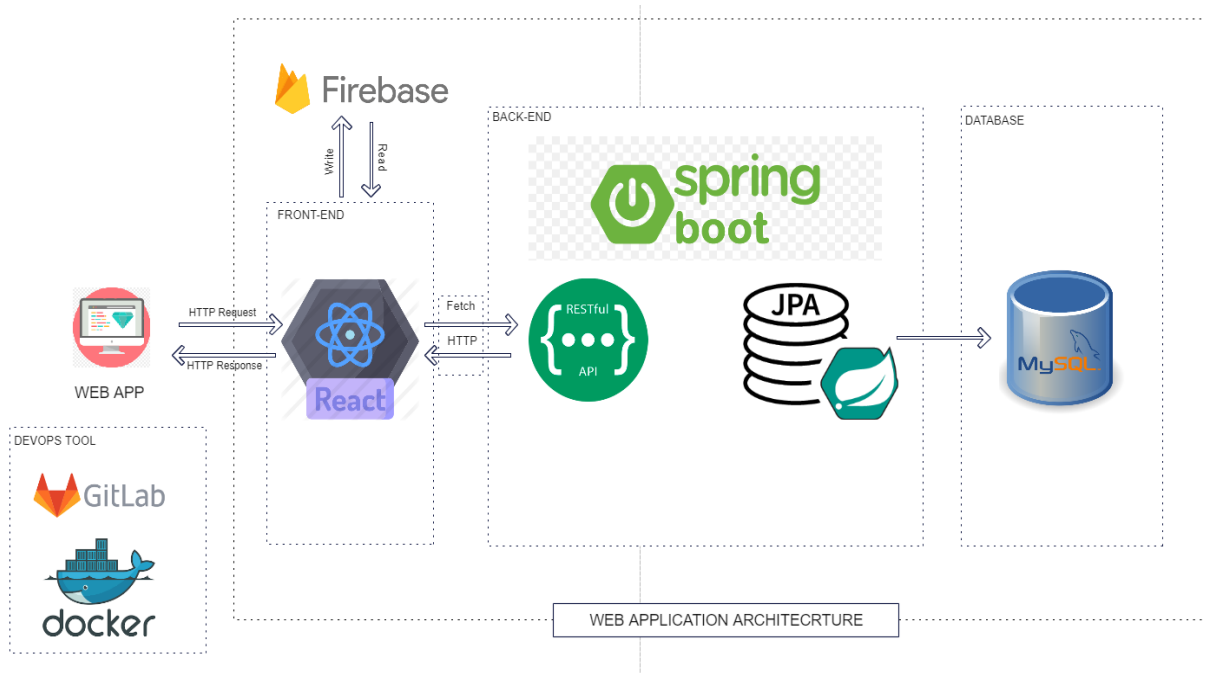
Date	A* M, D	In charge	Change Description

*A - Added M - Modified D - Deleted

II. Software Design Document

1. System Design

1.1 System Architecture



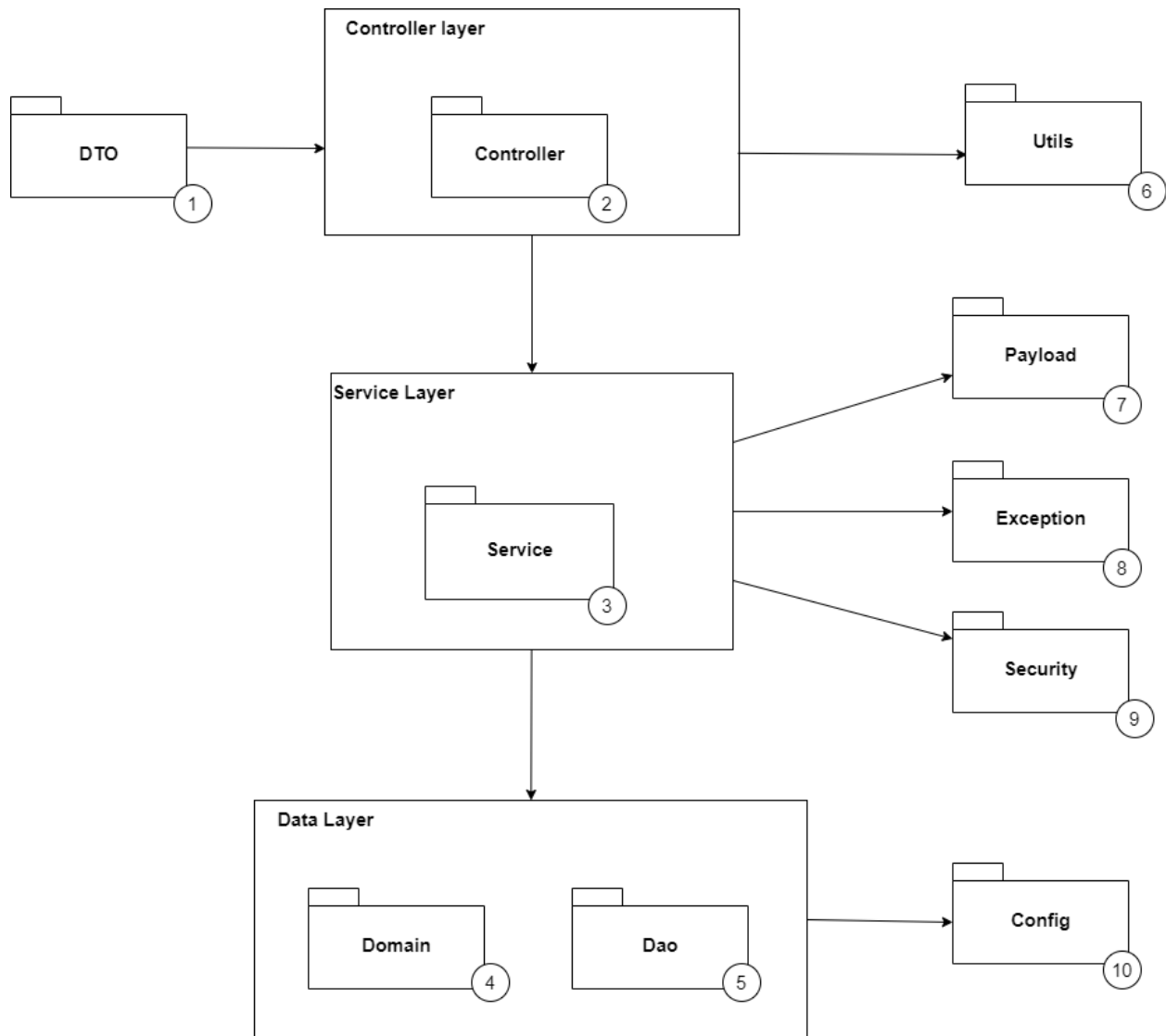
Watch Full Diagram. [Here](#)

System architecture component description

No	Component	Description
01	Web app	This is Hanase web app
02	ReactJs	The tech for building and developing front-end
03	Spring Restful Api	This component contains the APIs' set of web app
04	Spring Data Jpa	This component would be the bridge of data processing with sql server.
05	Spring boot	The tech for building and developing back-end
06	Mysql	This is sql server
07	Firebase	This is cloud-based database service
08	Gitlab	This is one of the deploy-enable app which sets a connection to app service deployment.

09	Docker	Virtual environment wrapping project and let them run on the physical servers.
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1.2 Package Diagram



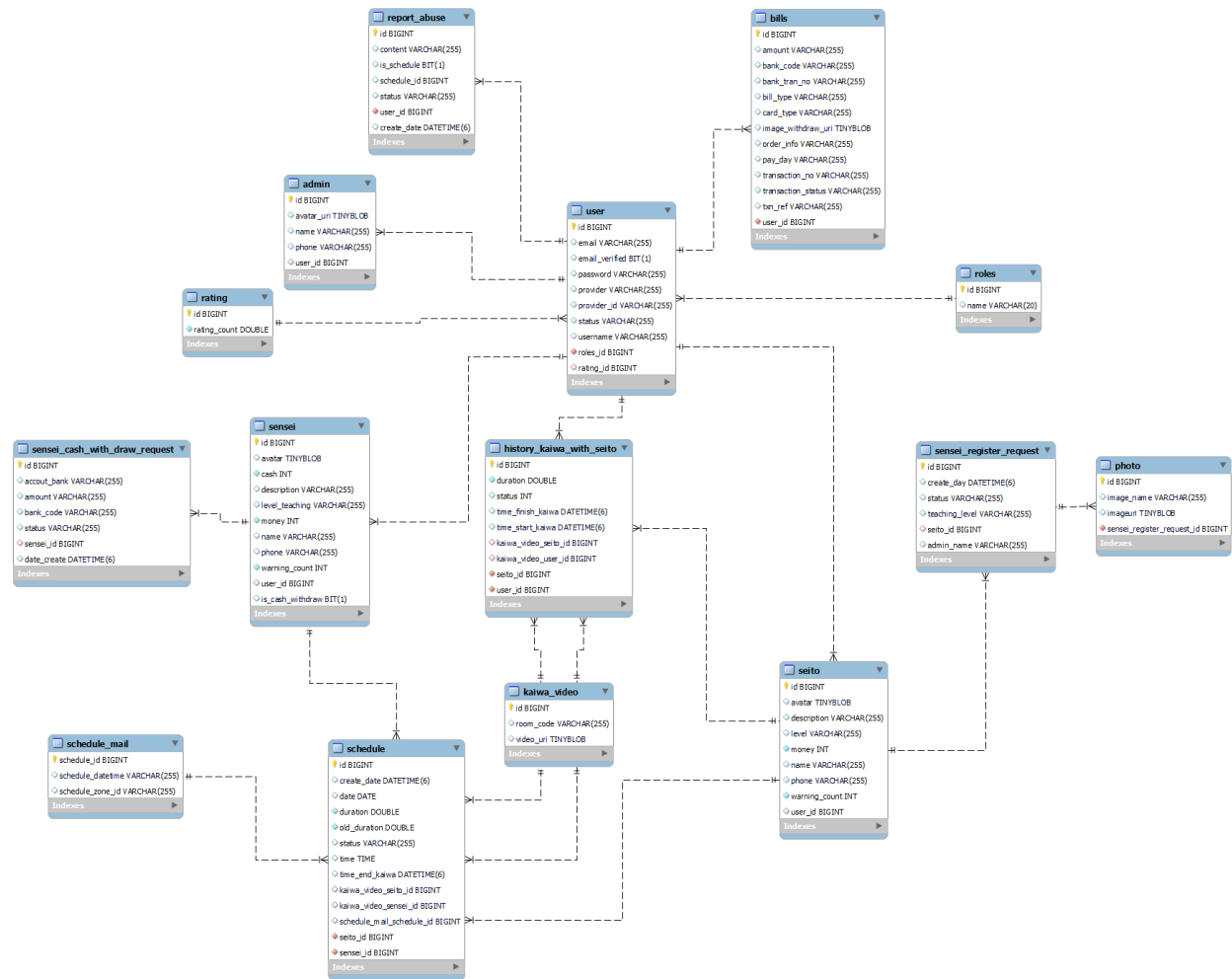
Watch Full Diagram. [Here](#)

Package Descriptions

No	Package	Description
01	DTO	This package contains the data request from FE to BE.
02	Controller	This package contains APIs.

03	Service	This package contains services, which are implemented from Data Layer, with @Autowired functions embedded into each API.
04	Domain	This package contains a data model, so to speak, of the entity of the app.
05	Dao	This package contains the functions which are involved in data processing with the database.
06	Utils	This package contains some useful tools (functions) for handling controllers.
07	Payload	This package contains a response payload of token's defining fine.
08	Exception	This package contains defined exception messages.
09	Security	This package contains Jwt configuration.
10	Config	This package contains other configuration files in need.

2. Database Design



Watch Full Diagram. [Here](#)

Table Descriptions

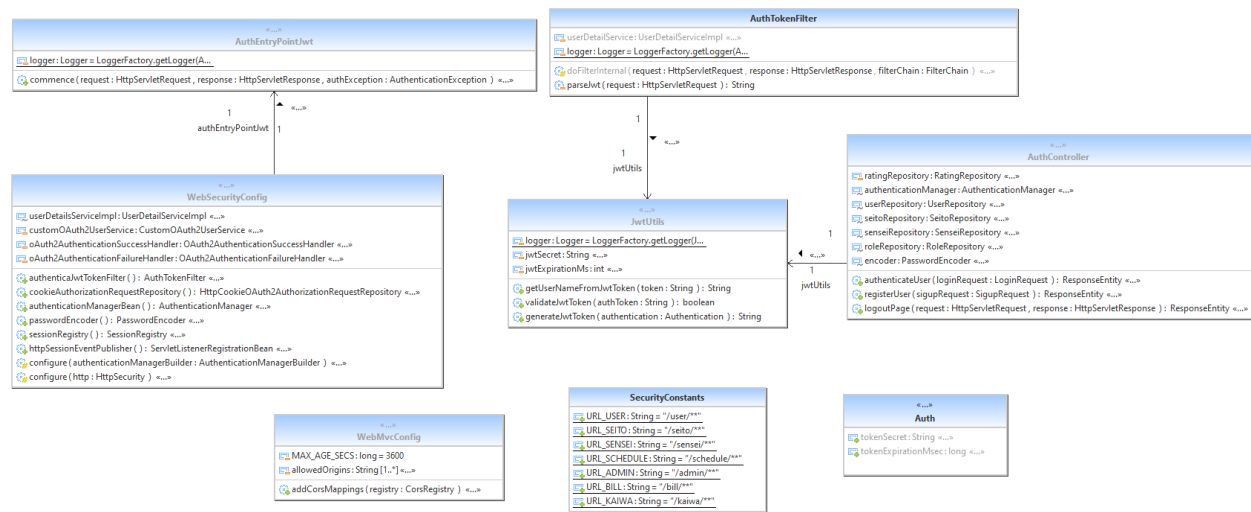
No	Table	Description
01	User	This table contains account's information.
02	Admin	This table contains admin's information.
03	Seito	This table contains seito's information.
04	Sensei	This table contains sensei's information.
05	Roles	This table contains roles.
06	Sensei_register_request	This table contains sensei register request's information.
07	Photo	This table contains certificates of seito to register sensei.
08	Schedule	This table contains kaiwa schedule's information
09	Kaiwa_video	This table contains kaiwa videos .
10	Histoy_kaiwa_with_seito	This table contains the history of kaiwa with seito .
11	Schedule_mail	This table contains the schedule to send mail.

12	Sensei_cash_with_draw_request	This table contains information about the cash withdrawal request of sensei .
13	Bills	This table contains history payments.
14	Repost_abuse	This table contains information about the reported abuse.
15	Rating	This table contains rating's information.

3. Detailed Design

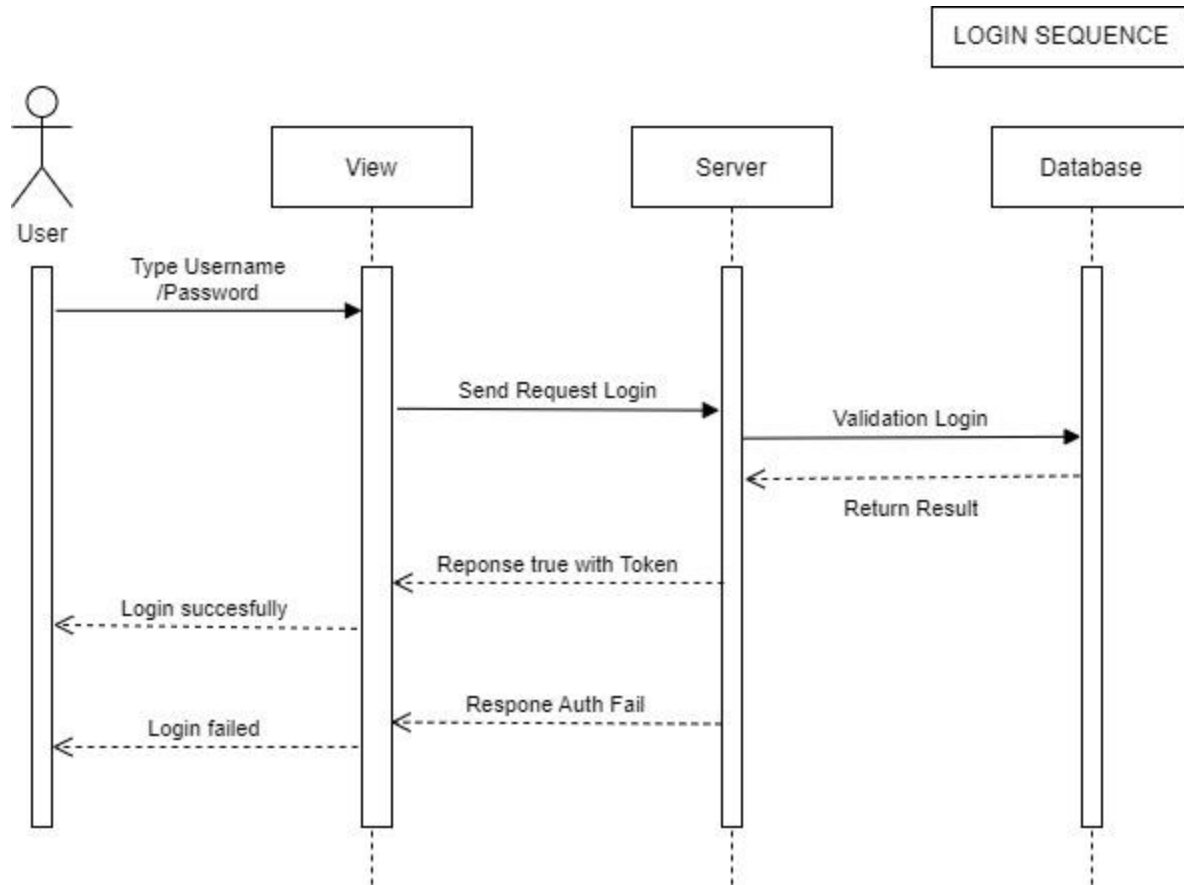
3.1 <Login>

3.1.1 Login Class Diagram



Watch Full Diagram. [Here](#)

3.1.2 Login Sequence Diagram

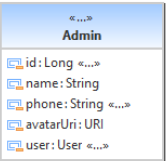
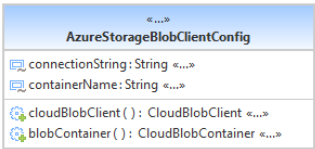
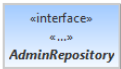
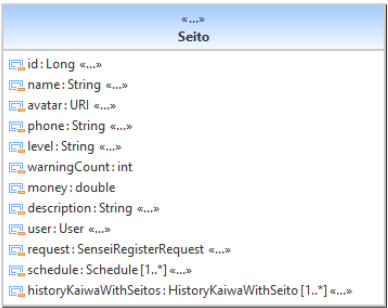
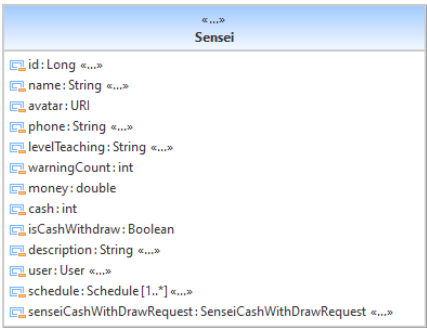


3.2 Register Sensei

3.2.1 Register Sensei Class Diagram

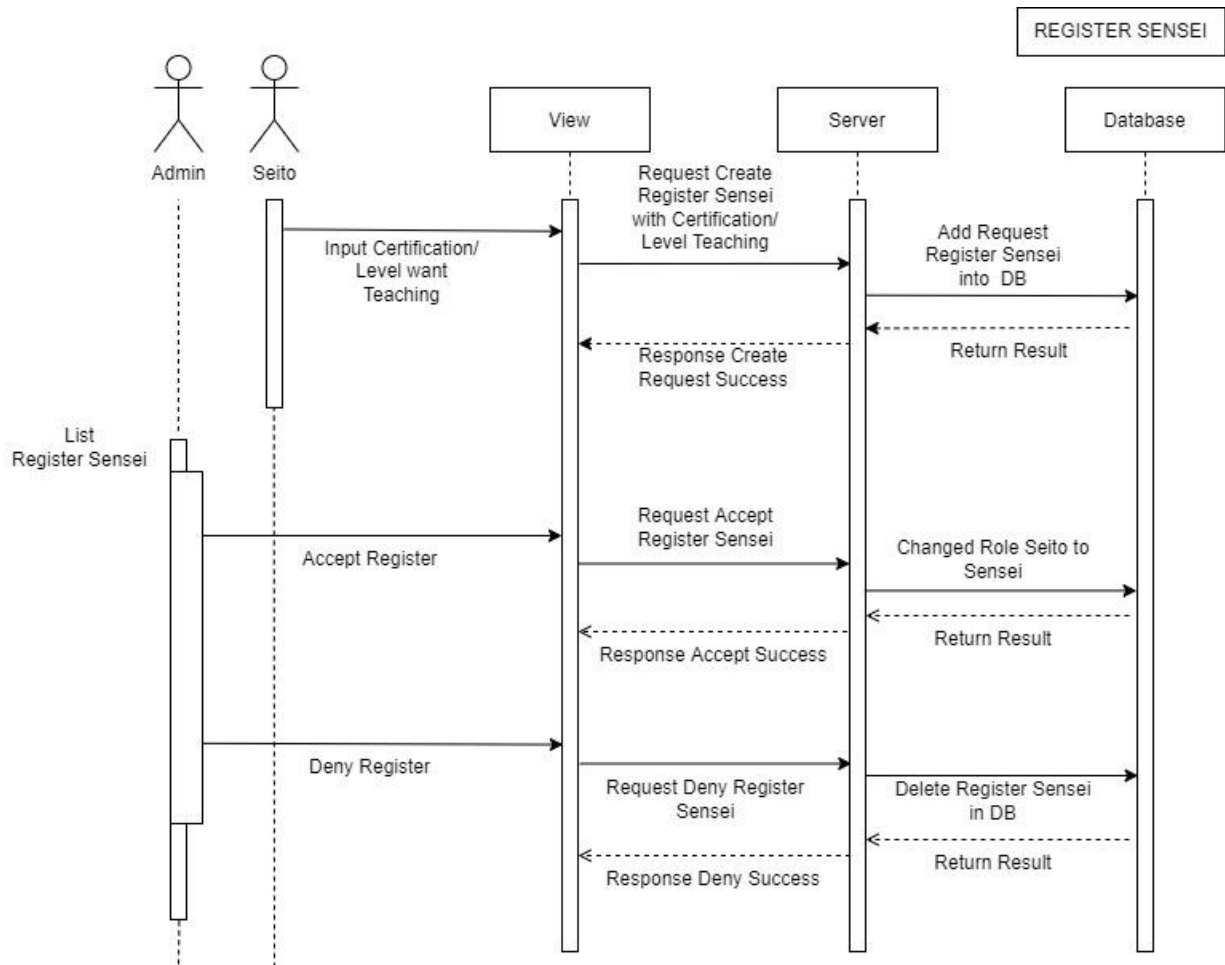


Watch Full Diagram 1 . [Here](#)



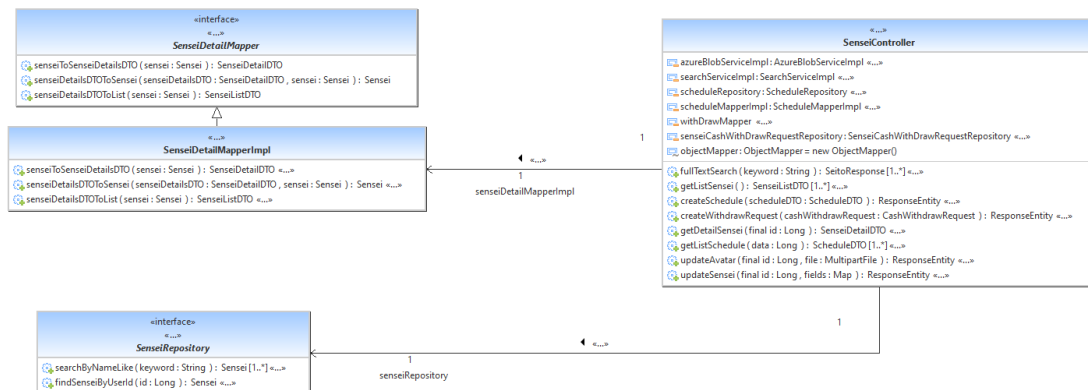
Watch Full Diagram 2 . [Here](#)

3.2.2 Register Sensei Sequence Diagram

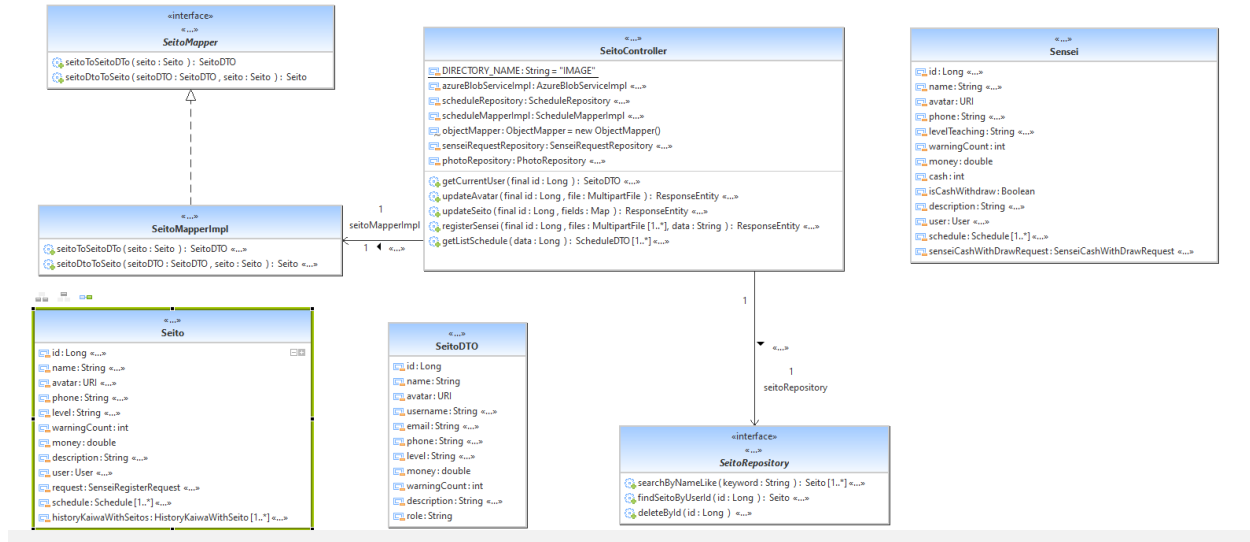


3.3 View/ Update Profile:

3.3.1 View/ Update Profile Class Diagram

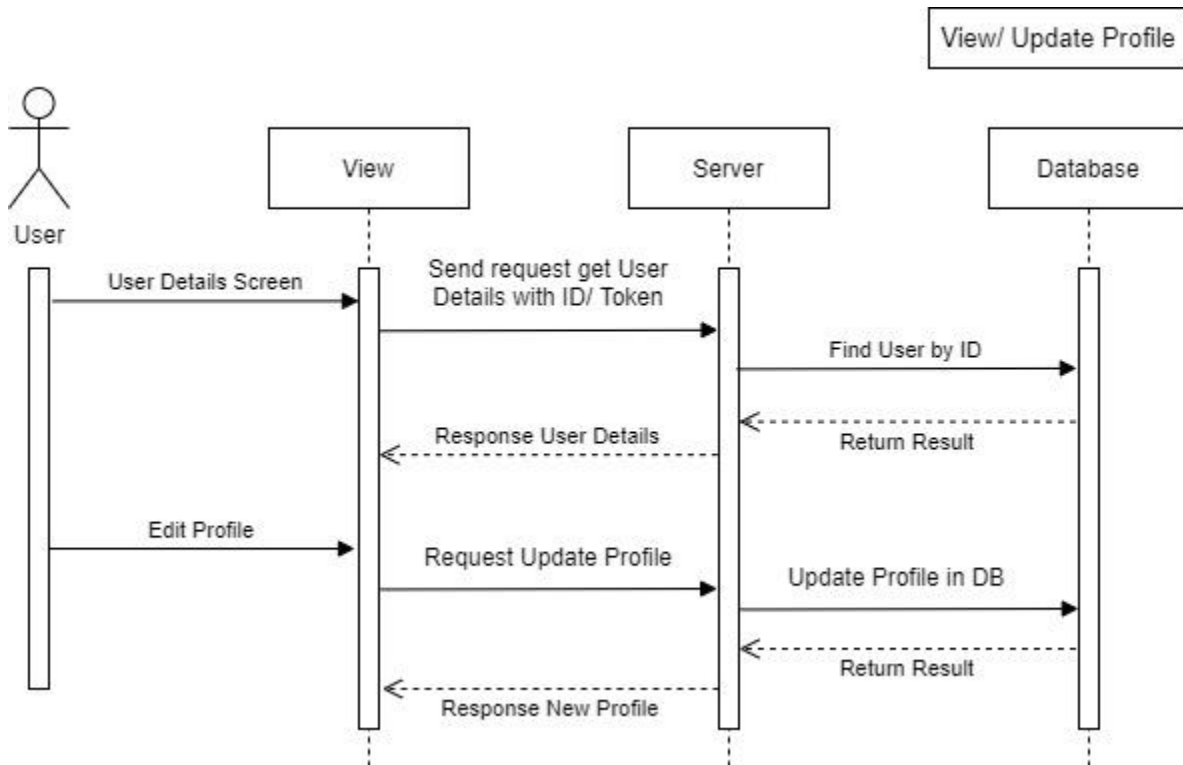


Watch Full Diagram 1. [Here](#)



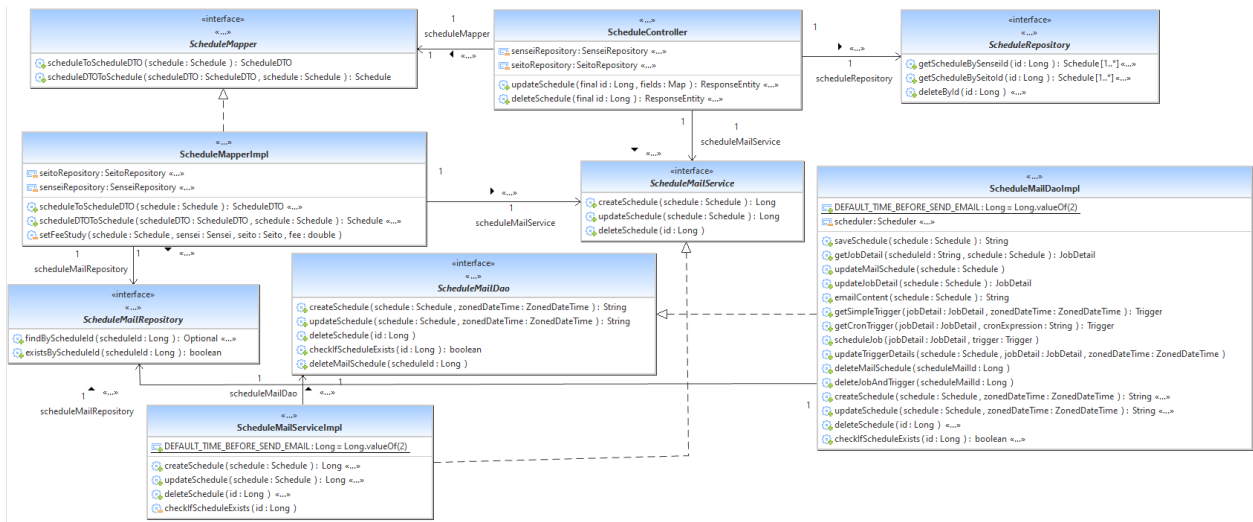
Watch Full Diagram 2. [Here](#)

3.3.2 View/ Update Sequence Diagram:

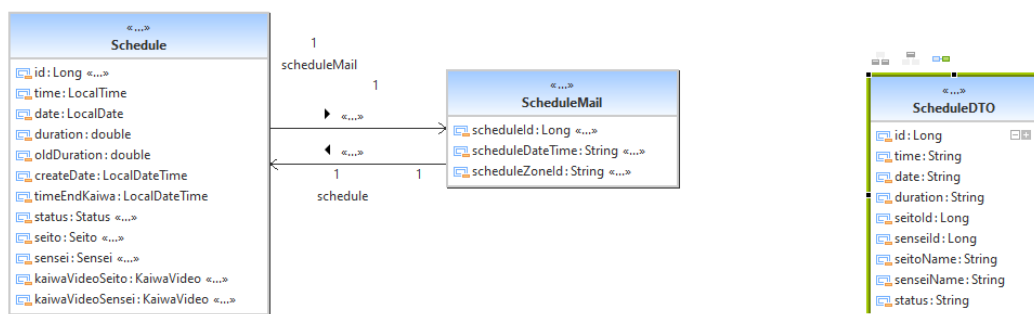


3.4 View Teaching Schedule

3.4.1 View Teaching Schedule Class Diagram

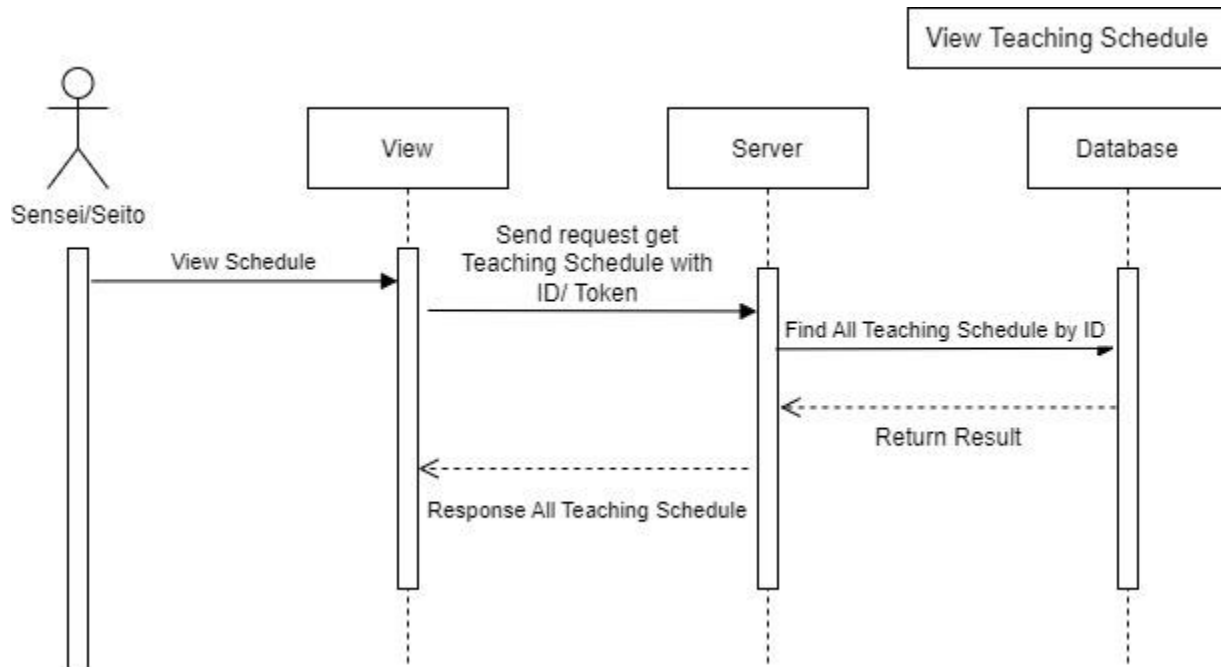


Watch Full Diagram 1 . [Here](#)



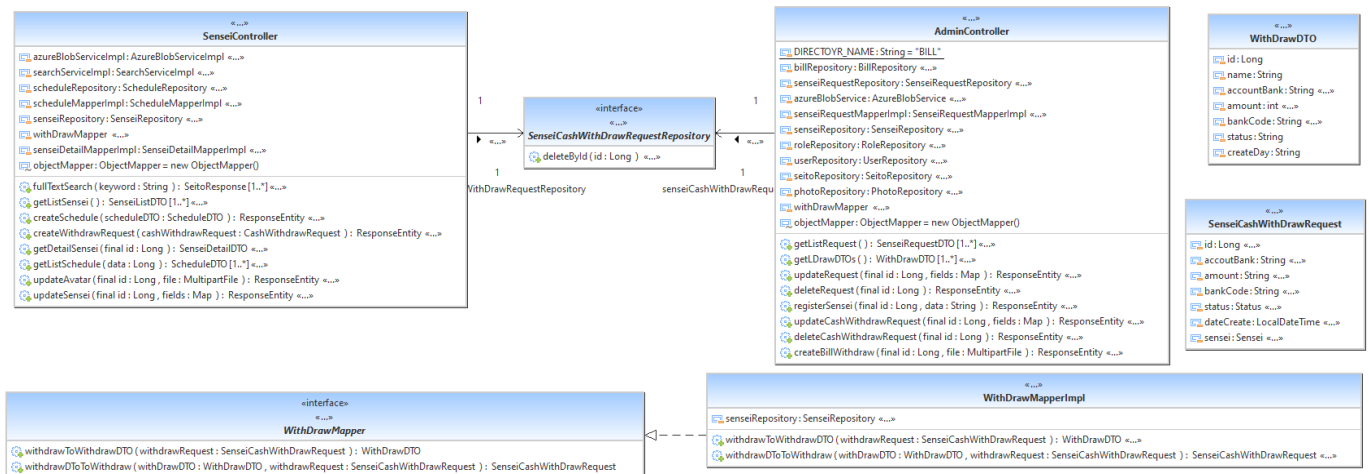
Watch Full Diagram 2 . [Here](#)

3.4.2 View Teaching Schedule Sequence Diagram



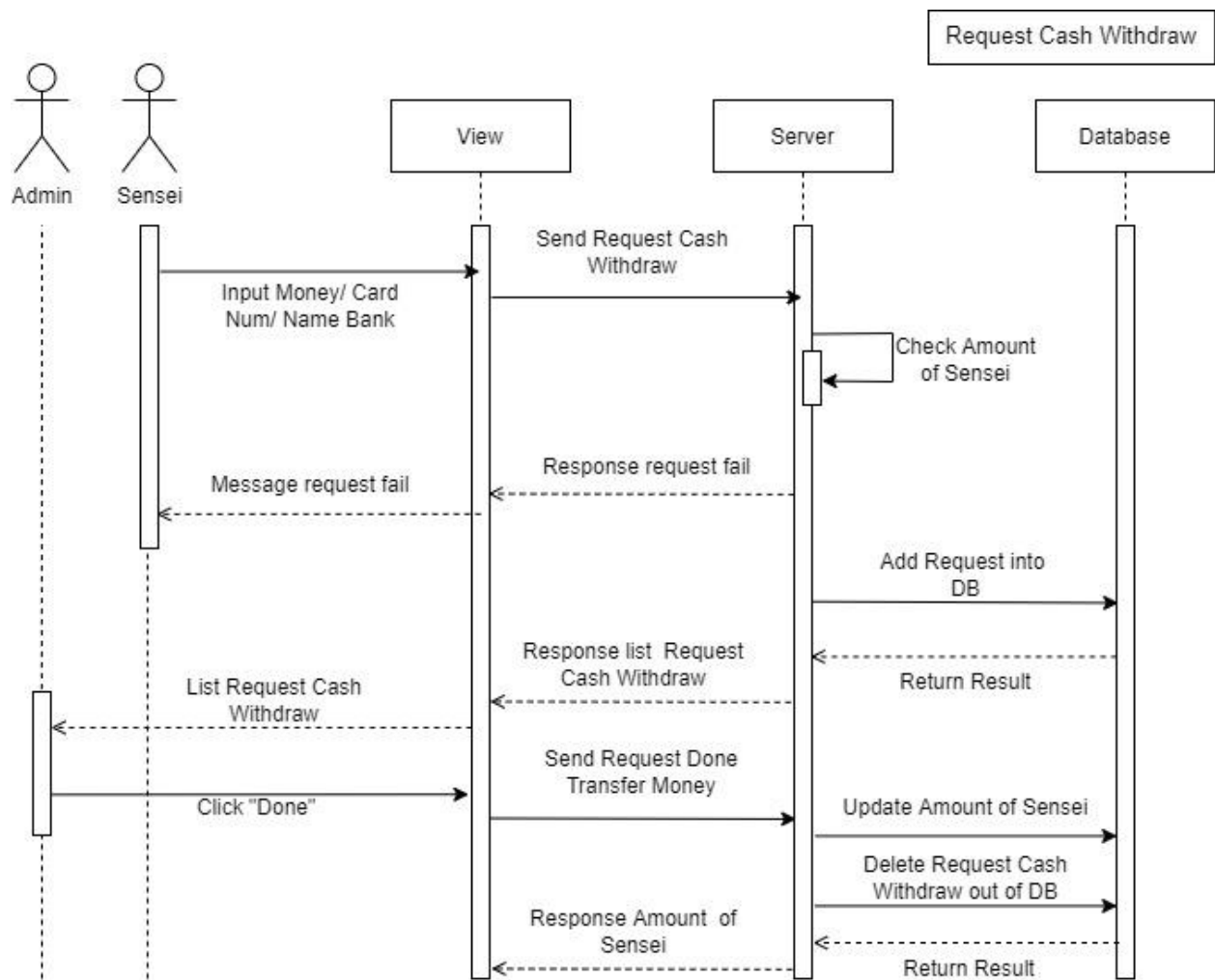
3.5 Request Cash Withdraw

3.5.1 Request Cash Withdraw Class Diagram



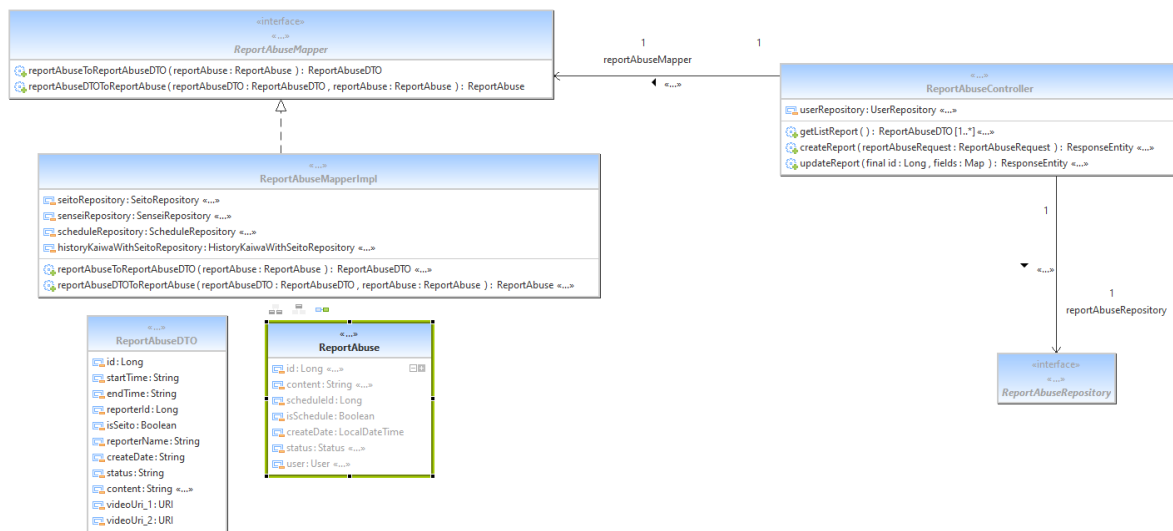
Watch Full Diagram. [Here](#)

3.5.2 Request Cash Withdraw Sequence Diagram



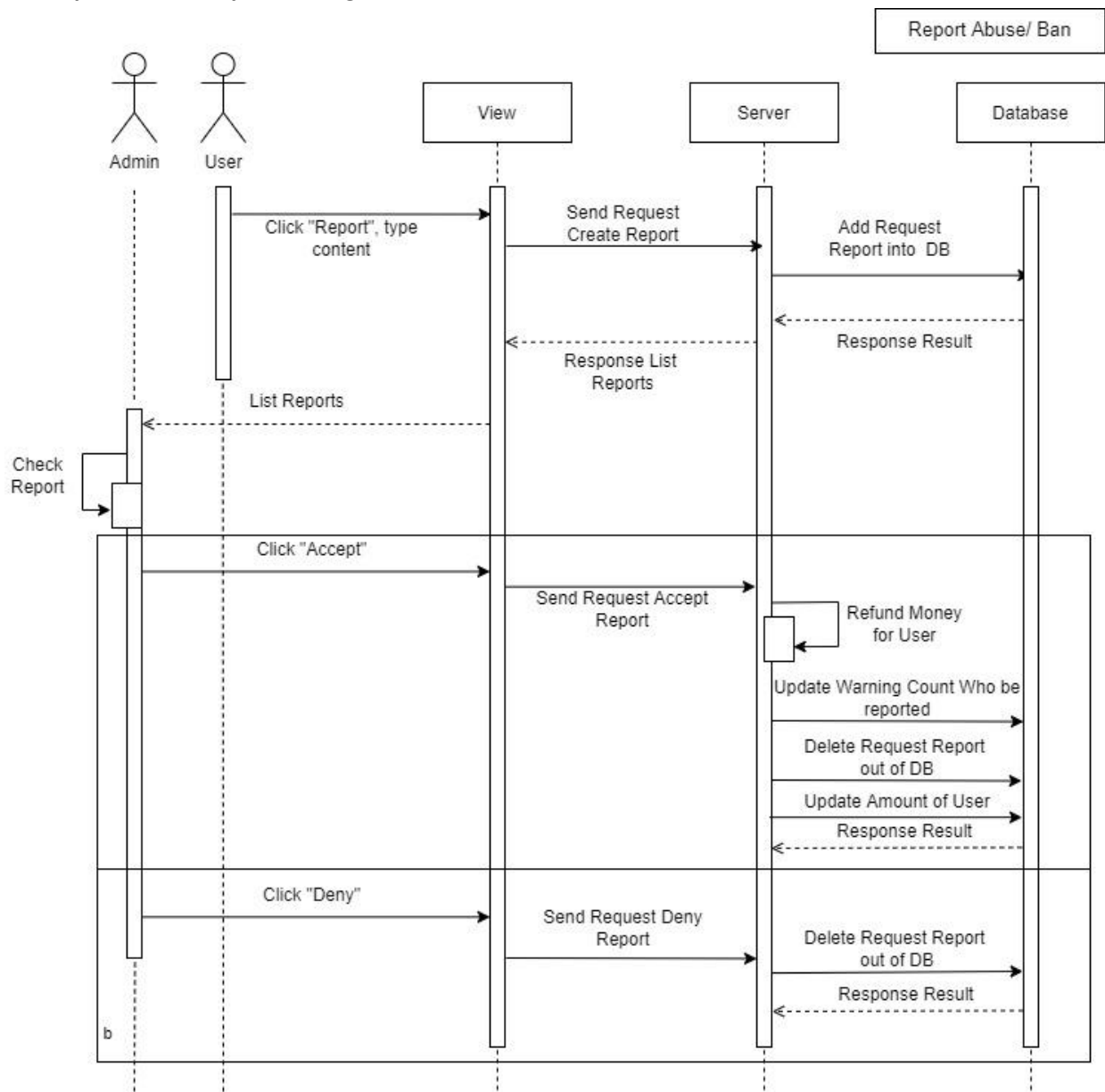
3.6 Report Abuse/ Ban

3.6.1 Report Abuse/Ban Class Diagram



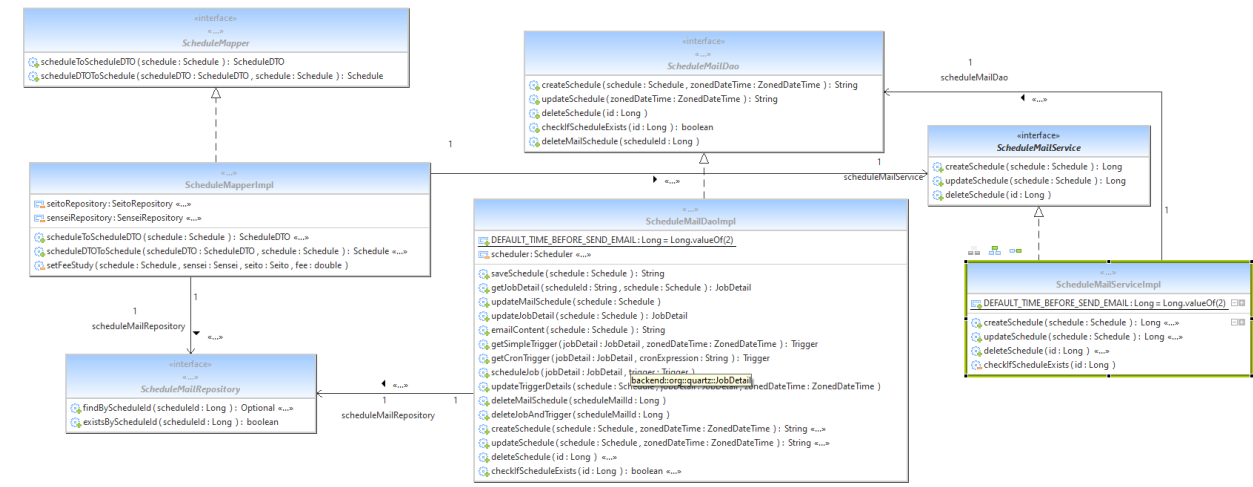
Watch Full Diagram. [Here](#)

3.6.2 Report Abuse Sequence Diagram

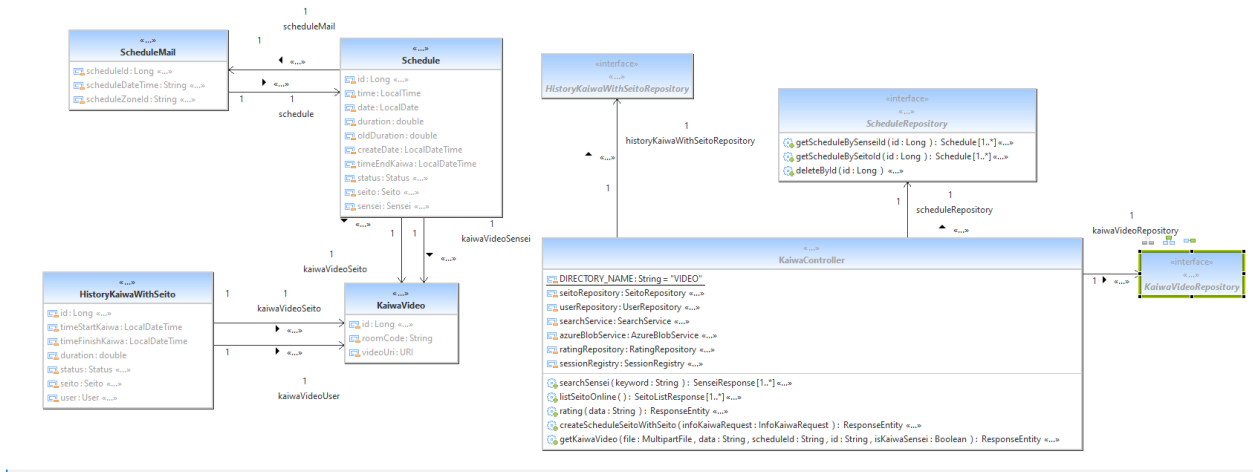


3.7 Kaiwa

3.7.1 Kaiwa Class Diagram

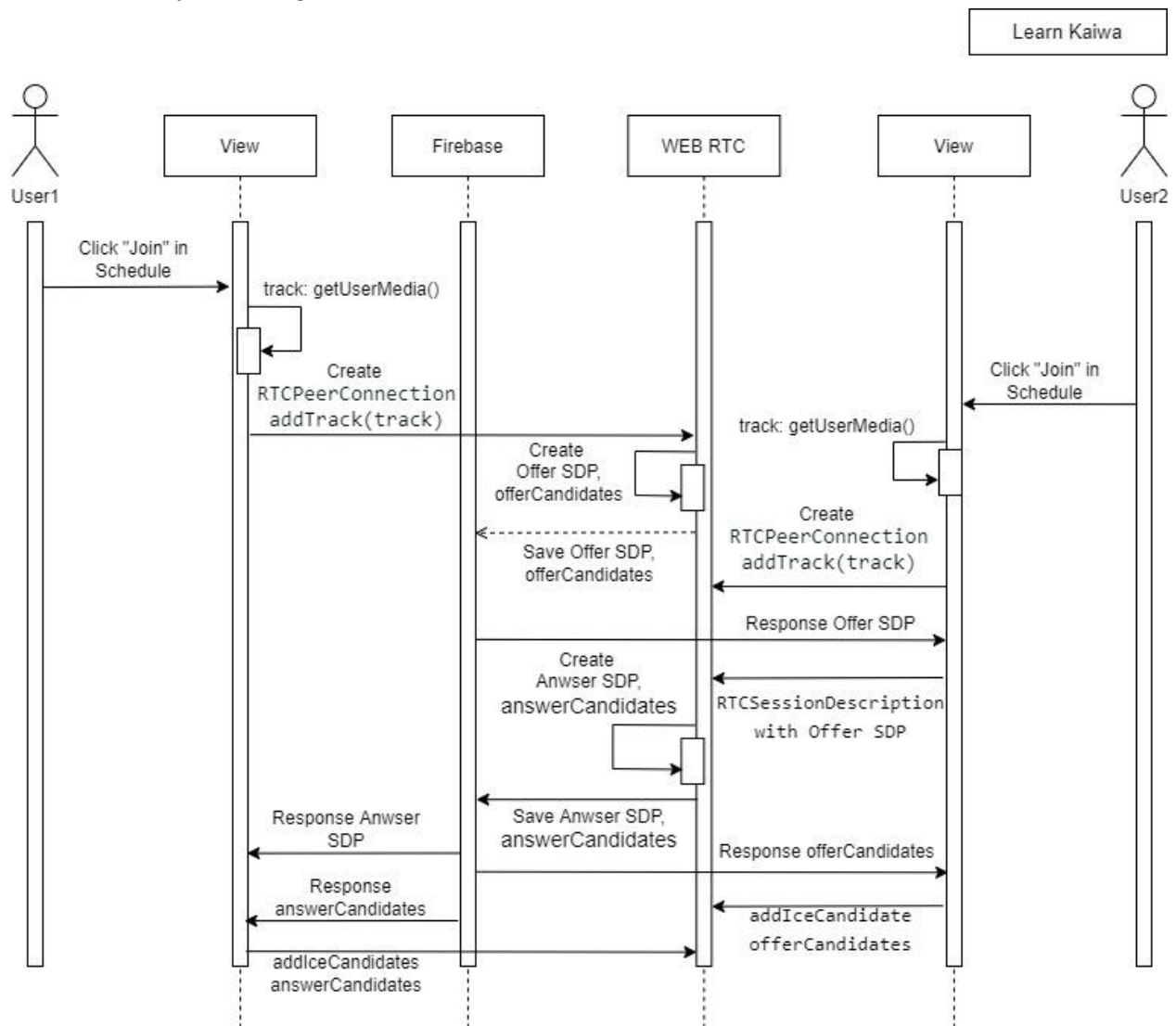


Watch Full Diagram 1 . [Here](#)



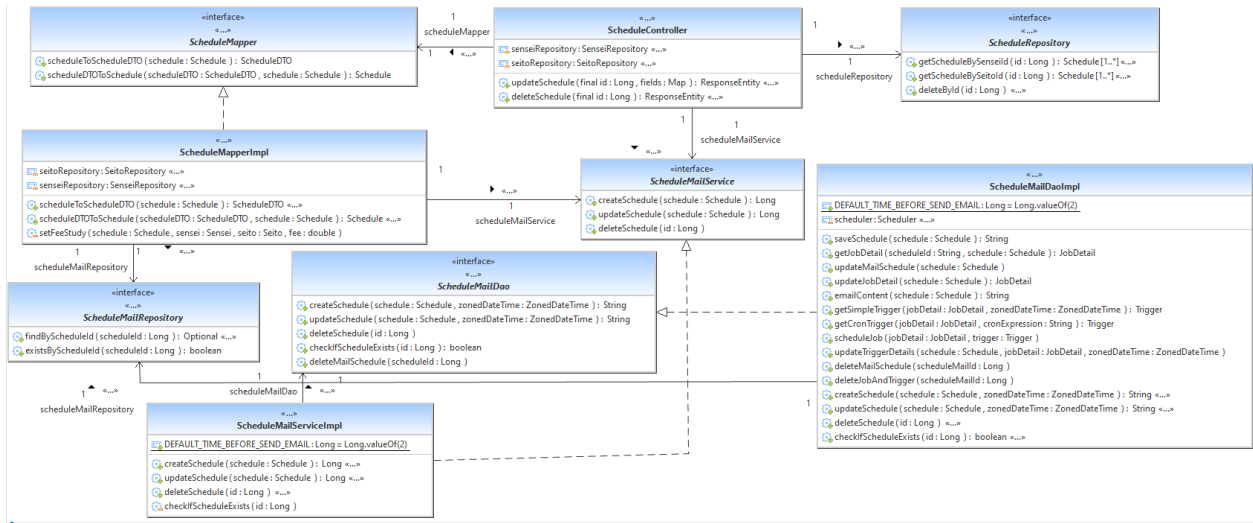
Watch Full Diagram 2 . [Here](#)

3.7.2 Kaiwa Sequence Diagram

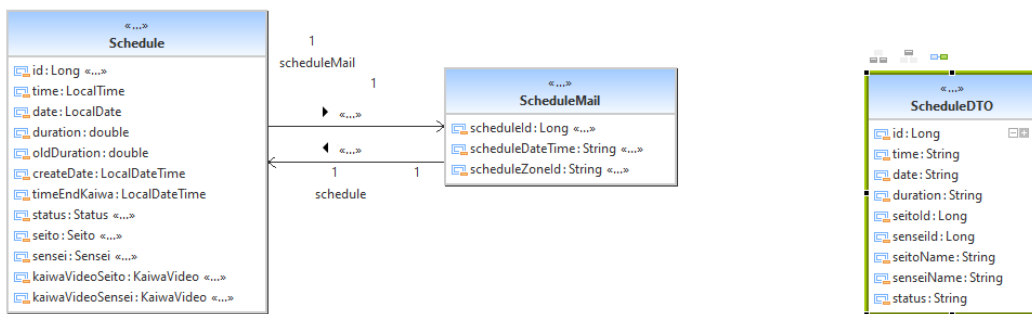


3.8 Cancel Teaching Schedule

3.8.1 Cancel Teaching Schedule Class Diagram

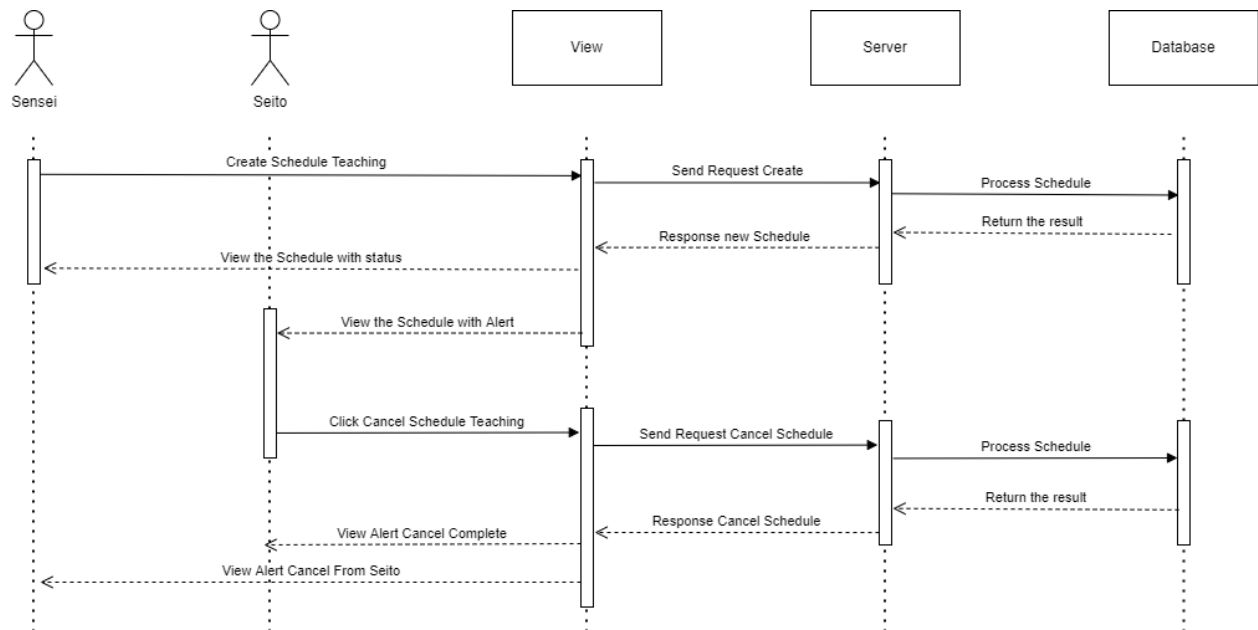


Watch Full Diagram 1 . [Here](#)



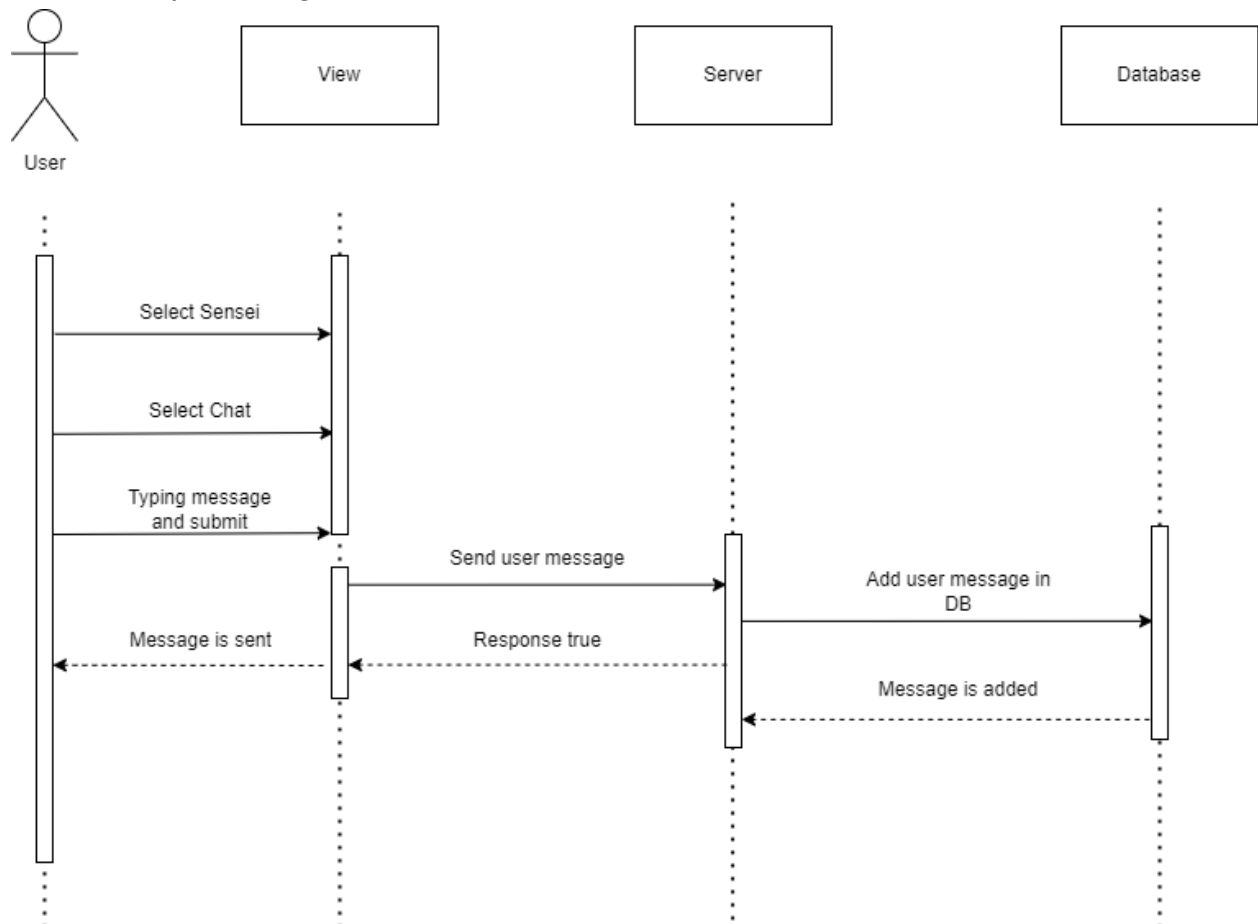
Watch Full Diagram 2 . [Here](#)

3.8.2 Cancel Teaching Schedule Sequence Diagram



3.9 Chat Schedule

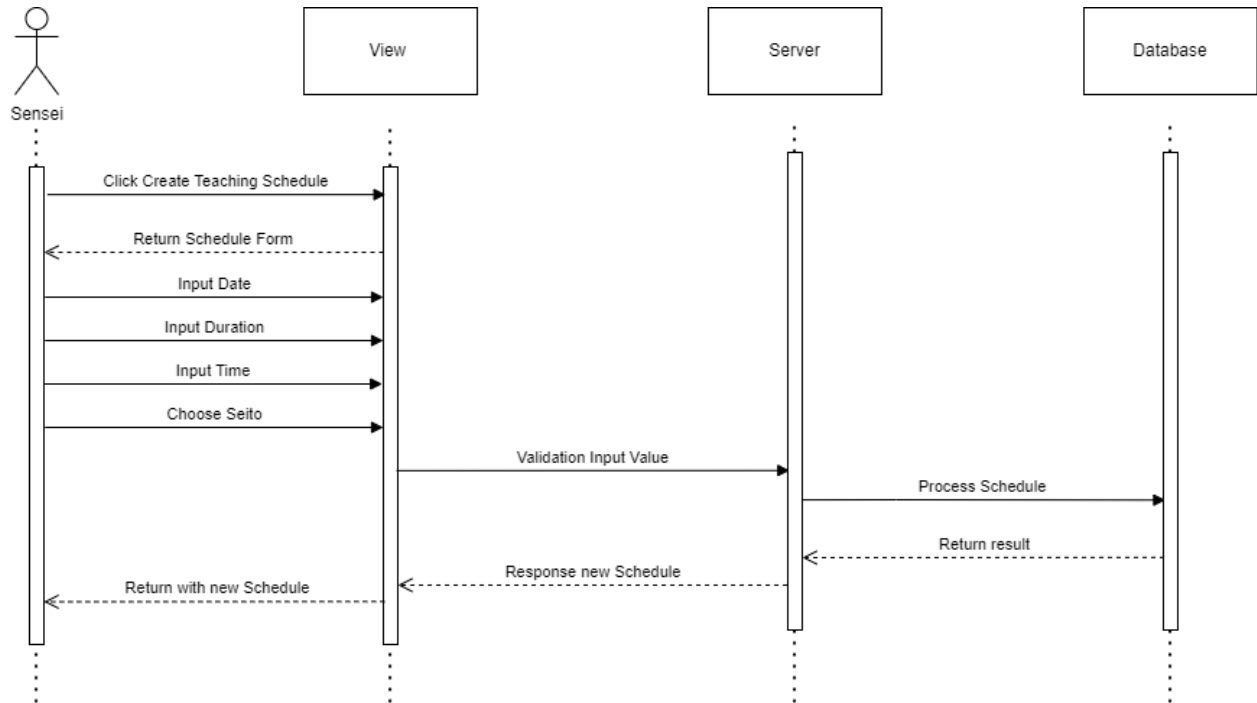
3.9.1 Chat Sequence Diagram



3.10.1 Create Teaching Schedule Class Diagram

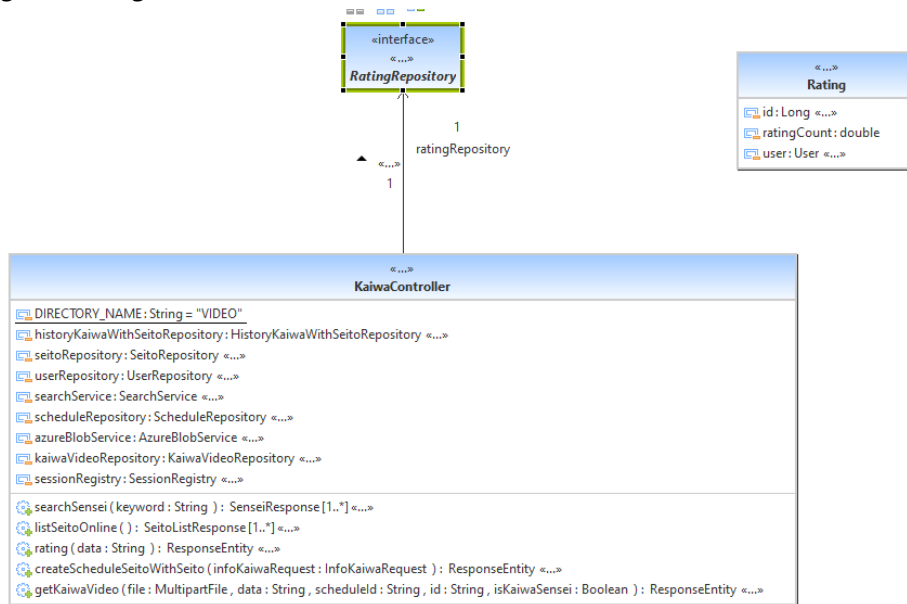


3.10.2 Create Teaching Schedule Sequence Diagram



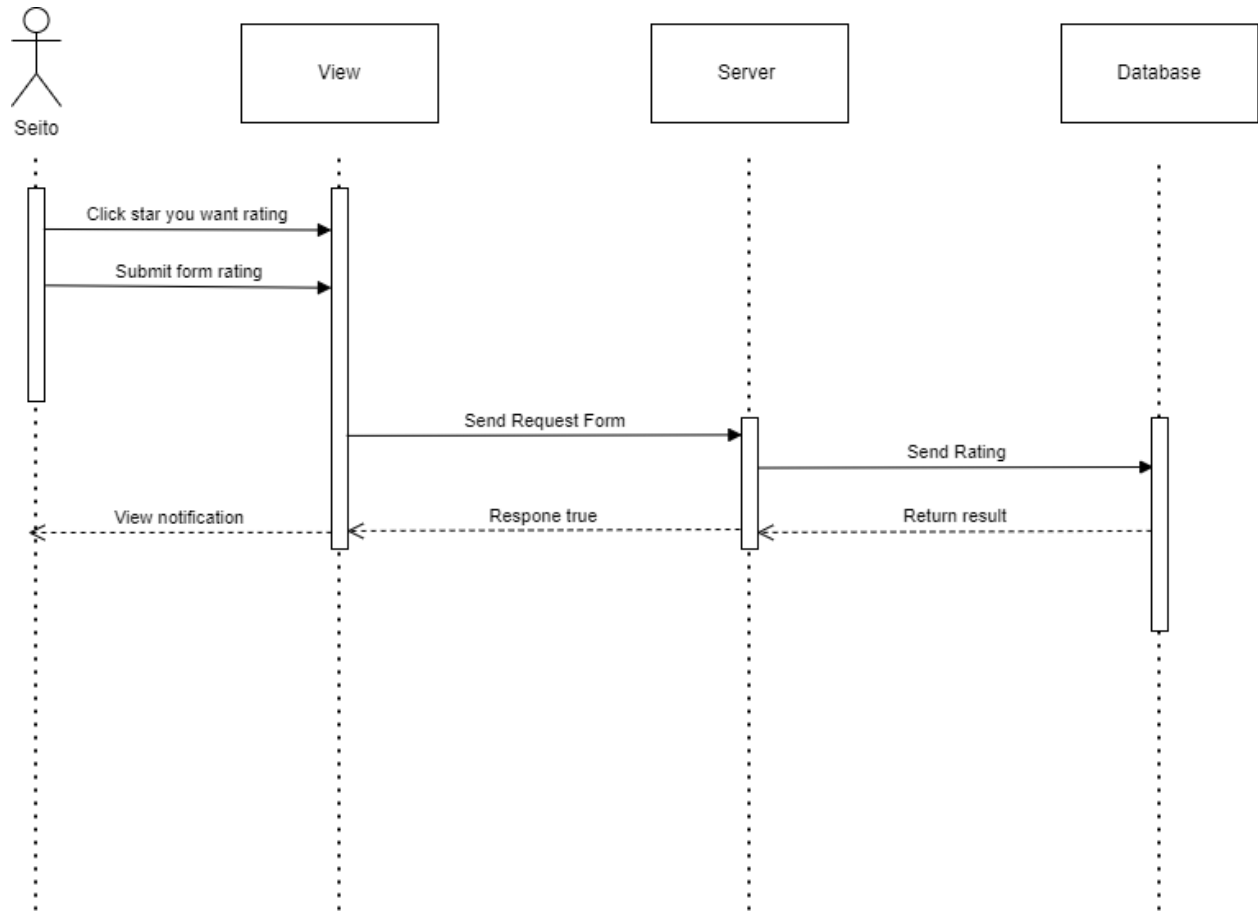
3.11 Rating

3.11.1 Rating Class Diagram



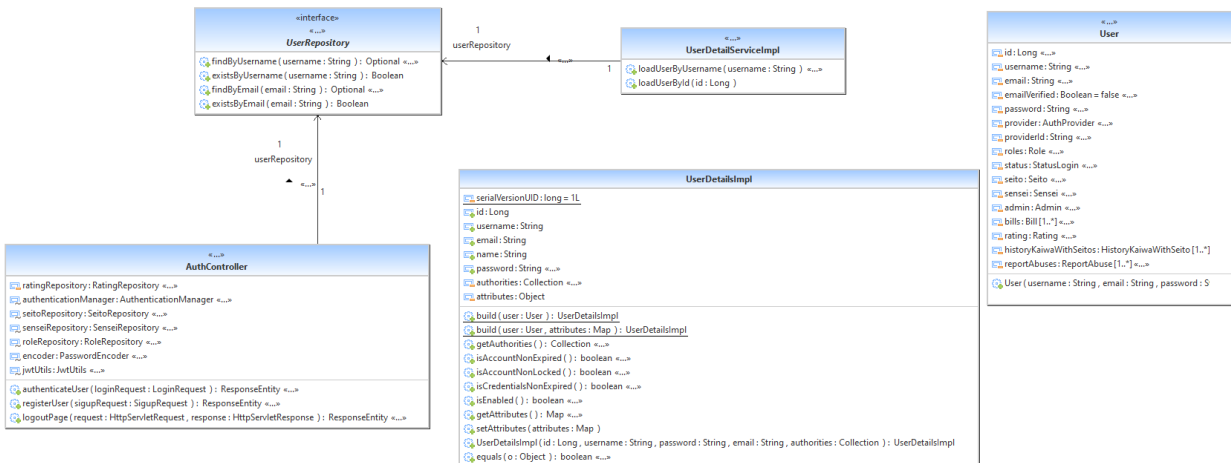
Watch Full Diagram. [Here](#)

3.11.2 Rating Sequence Diagram



3.12 Register

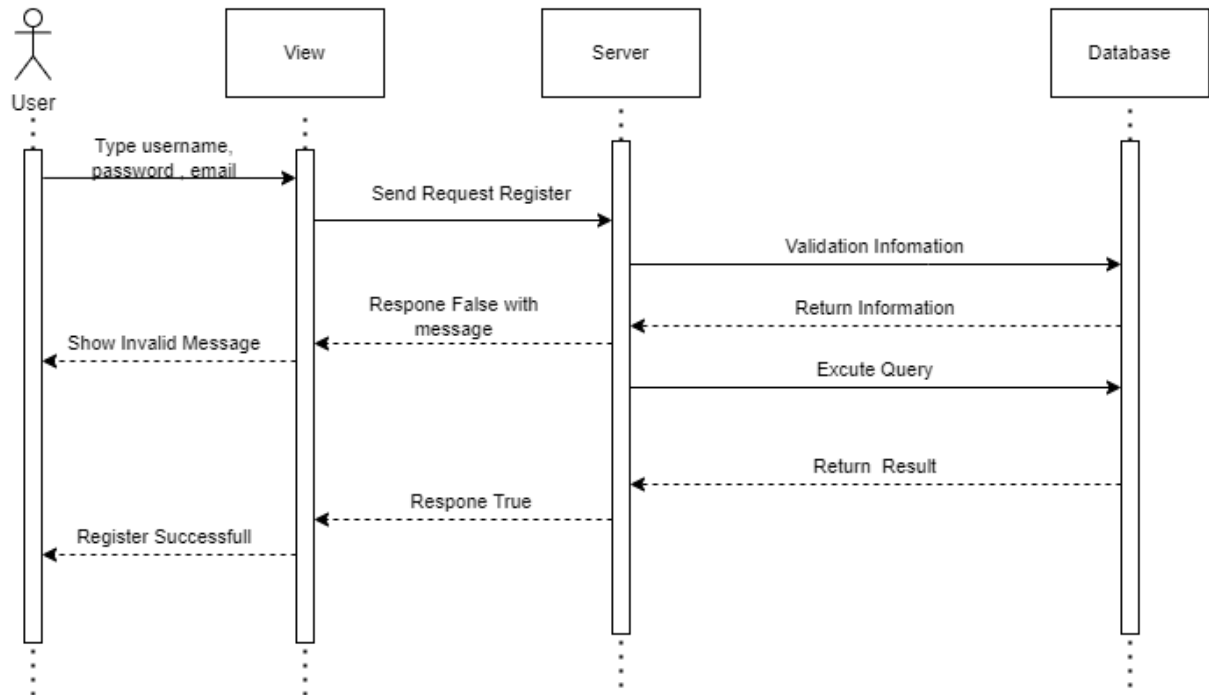
3.12.1 Register Class Diagram



Watch Full Diagram. [Here](#)

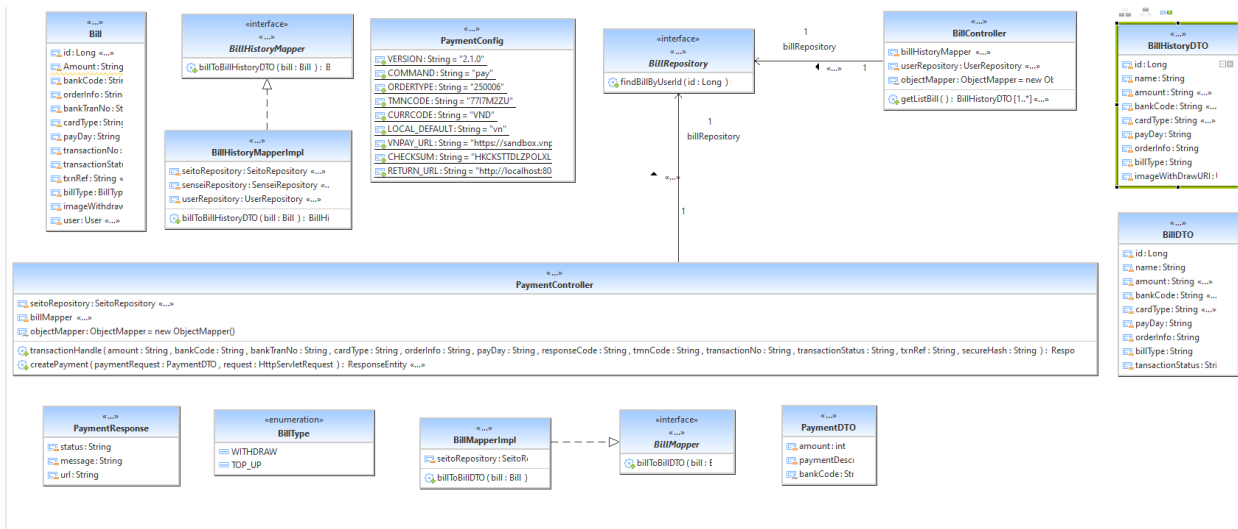
3.12.2 Register Sequence Diagram

Register Sequence Diagram



3.13 Top up money

3.13.1 Top up money Class Diagram



Watch Full Diagram. [Here](#)

3.13.2 Top up money Sequence Diagram

