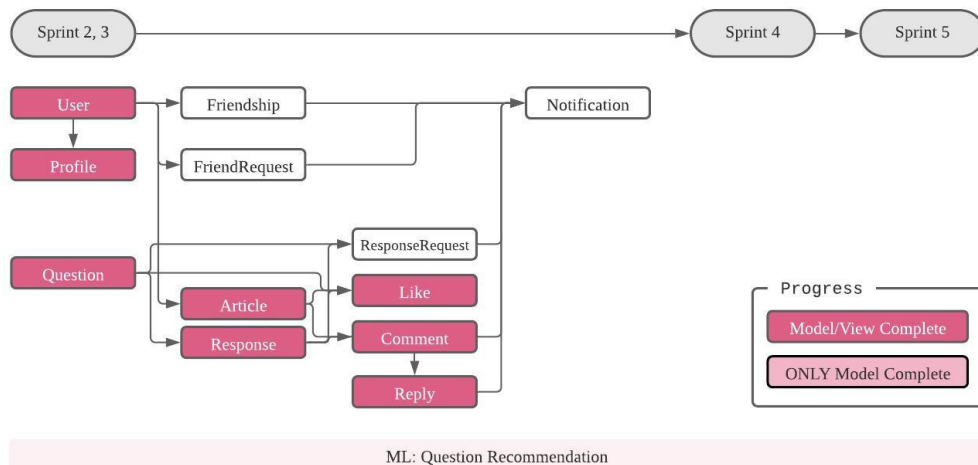


## [Sprint 3 Report] Team 8, adoor

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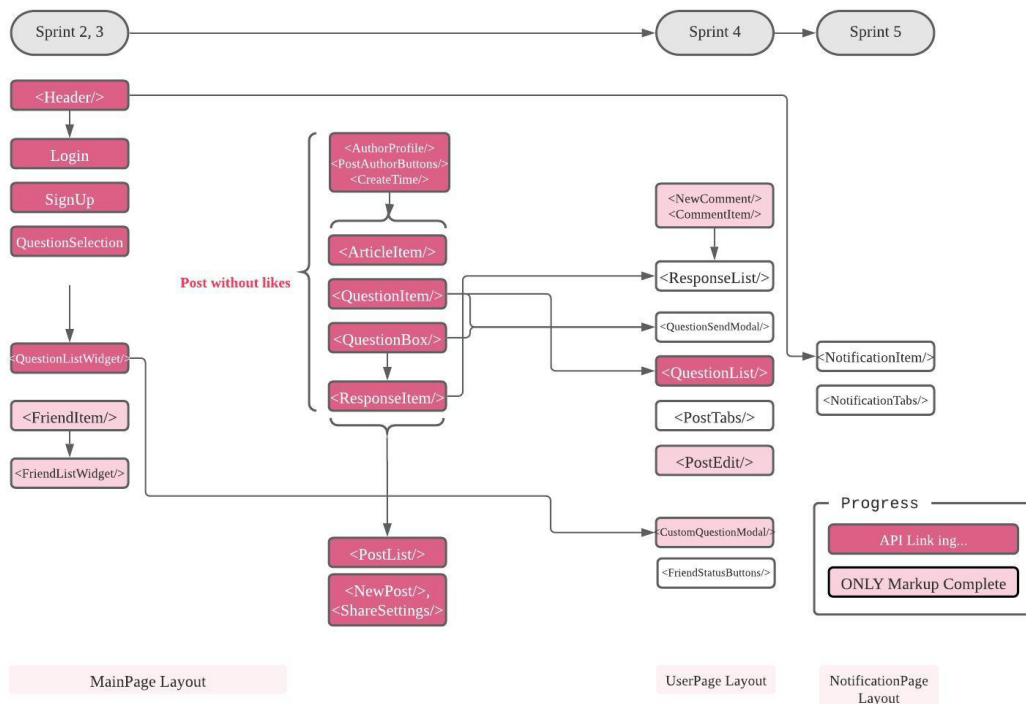
### Progress [Backend]

#### <Backend Dependencies>



### [Frontend]

#### <Frontend Dependencies>



## Difficulties

- **technical Issues**

- **frontend**

- LoadingReducer

- As with all projects, we had to deal with numerous async api calls in redux modules.
      - The processing of numerous api calls divided into request passing/success/failure respectively has created unnecessary code.
      - We created 'LoadingReducer' that can manage all API calls.

- Backend API Connection

- We had a problem with cookies and CSRF Token not being delivered when sending API requests.
      - We could solve this issue by creating an axios global instance with 'withCredentials' and 'X-CSRFToken'.

- Problems with using Router and History

- We used Router, we made a history object using createBrowserHistory, and we tried to push history to the desired location.
      - It had a problem in which the component was not rendered, even though the url was properly moved.
      - There have been trial and error replacing used routers and history in many ways. It was solved by replacing Router with BrowserRouter and using useHistory instead of createBrowserHistory.

- Hooks

- Even though we didn't learn about React Hooks in the Lab Session. we tried to use it because of its flexibility.
      - However, not everyone was familiar with it, so there was some trial and error until it was used perfectly.
      - It was naturally resolved by searching for and applying a lot of related reference materials.

- **backend**

- Model

- Our initial model design consisted of 14 different models with complex structure involving inheritance and polymorphism. Though the design offered a few merits, the code was a little too complex and messy (<https://github.com/swsnu/swpp2020-team8/tree/feature/backend-models>).
      - We then decided to refine our model design, and refactored our code accordingly

(<https://github.com/swsnu/swpp2020-team8/tree/feature/backend-models-refactor>).

- The sheer amount of time and effort required to implement and refactor the complex model structures with 100% test coverage and seeding was a challenge in itself.
- Serializer & View
  - A large part of our models are related with each other and our feed APIs require json responses with multiple custom fields, nested structures, and permissions settings.
  - Also, since there are more than 40 required APIs, and because many of our API calls are model CRUD, we decided to use Classed Based Views instead of Function Based Views to avoid inconsistency and redundancy.
  - Yet, the document for django-rest-framework tended to be extremely concise, and it was quite difficult to not only grasp the basic features of the framework but also modify them to match with our needs.
- 
- **organization issues**
  - 각자 배분된 일을 정해진 듀에 맞춰 개발을 완수하기
    - dependency 의존적이지 않은 planning
  - Communication Issues
    - 회의와 개발 분리
    - 최대한 자주 많이 만나기

## Testing

- **Backend testing**
  - unit tests on model structures using django.test
  - it took a while for us to implement proper authentication using csrf
    - views are yet to be tested
    - plan to leverage django-test-plus and json validators in the future
- **Frontend testing**
  - mainly component unit tests using jest, Enzyme
  - tested redux modules - post, question reducers on implemented actions and reducer state changes

- The user.js module under development has not been fully covered because the test is also incomplete.

## Coverage

### - Backend (Coverage)

Destroying test database for alias 'default'...

| Name                     | Stmts | Miss | Branch | BrPart | Cover | Missing                    |
|--------------------------|-------|------|--------|--------|-------|----------------------------|
| -----                    |       |      |        |        |       |                            |
| __init__.py              | 0     | 0    | 0      | 0      | 100%  |                            |
| account/__init__.py      | 0     | 0    | 0      | 0      | 100%  |                            |
| account/admin.py         | 5     | 0    | 0      | 0      | 100%  |                            |
| account/apps.py          | 3     | 0    | 0      | 0      | 100%  |                            |
| account/models.py        | 16    | 0    | 2      | 1      | 94%   | 29->31                     |
| account/serializers.py   | 15    | 0    | 0      | 0      | 100%  |                            |
| account/tests.py         | 10    | 0    | 0      | 0      | 100%  |                            |
| account/urls.py          | 5     | 0    | 0      | 0      | 100%  |                            |
| account/views.py         | 56    | 21   | 10     | 0      | 53%   | 21-24, 30-40, 55-58, 62-67 |
| comment/__init__.py      | 0     | 0    | 0      | 0      | 100%  |                            |
| comment/admin.py         | 3     | 0    | 0      | 0      | 100%  |                            |
| comment/apps.py          | 3     | 0    | 0      | 0      | 100%  |                            |
| comment/models.py        | 26    | 1    | 0      | 0      | 96%   | 39                         |
| comment/serializers.py   | 26    | 6    | 0      | 0      | 77%   | 14-15, 25, 28, 31, 41      |
| comment/tests.py         | 41    | 0    | 0      | 0      | 100%  |                            |
| comment/urls.py          | 3     | 0    | 0      | 0      | 100%  |                            |
| comment/views.py         | 15    | 1    | 0      | 0      | 93%   | 19                         |
| feed/__init__.py         | 0     | 0    | 0      | 0      | 100%  |                            |
| feed/admin.py            | 5     | 0    | 0      | 0      | 100%  |                            |
| feed/apps.py             | 3     | 0    | 0      | 0      | 100%  |                            |
| feed/models.py           | 82    | 0    | 2      | 0      | 100%  |                            |
| feed/serializers.py      | 50    | 10   | 6      | 0      | 71%   | 17-26                      |
| feed/tests.py            | 47    | 0    | 0      | 0      | 100%  |                            |
| feed/urls.py             | 3     | 0    | 0      | 0      | 100%  |                            |
| feed/views.py            | 63    | 9    | 4      | 0      | 81%   | 16-20, 30-31, 43, 64, 85   |
| like/__init__.py         | 0     | 0    | 0      | 0      | 100%  |                            |
| like/admin.py            | 3     | 0    | 0      | 0      | 100%  |                            |
| like/apps.py             | 3     | 0    | 0      | 0      | 100%  |                            |
| like/models.py           | 22    | 1    | 0      | 0      | 95%   | 35                         |
| like/serializers.py      | 20    | 4    | 0      | 0      | 80%   | 18-19, 25, 28              |
| like/tests.py            | 42    | 0    | 0      | 0      | 100%  |                            |
| like/urls.py             | 3     | 0    | 0      | 0      | 100%  |                            |
| like/views.py            | 15    | 1    | 0      | 0      | 93%   | 19                         |
| notification/__init__.py | 0     | 0    | 0      | 0      | 100%  |                            |
| notification/admin.py    | 0     | 0    | 0      | 0      | 100%  |                            |
| notification/apps.py     | 3     | 0    | 0      | 0      | 100%  |                            |
| notification/models.py   | 0     | 0    | 0      | 0      | 100%  |                            |
| notification/tests.py    | 0     | 0    | 0      | 0      | 100%  |                            |
| notification/urls.py     | 0     | 0    | 0      | 0      | 100%  |                            |
| notification/views.py    | 0     | 0    | 0      | 0      | 100%  |                            |
| -----                    |       |      |        |        |       |                            |
| TOTAL                    | 591   | 54   | 24     | 1      | 88%   |                            |

### - Backend (pylint)

```
(swpp-env) (base) gimjaewon@gimjaewon-ui-MacBookPro adoorback % pylint **/*.py --load-plugins pylint_django
-----
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

## Contribution of team members

### - Curie Yoo

- [FE] set up redux, reducers (friend, loading, notification, post, question, user) & testing environment (completed)
- [FE] SignUp page & feature(completed)
- [FE] Question Selection page(completed)

- [FE] <PostList /> component(completed)
  - [FE] FriendFeed page(completed)
  - [FE] post.js redux module(completed)
  - [FE] <PostItem /> component(completed)
    - <AuthorProfile /> component(completed)
    - <CreateTime /> component(completed)
  - [FE] <QuestionBox /> component(completed)
  - [FE] <CommentItem />, <NewComment /> component(work in process)
  - [FE] Back-front connection (proxying) (completed)
- **Jaewon Kim**
- [FE] set up login with CSRF & JWT Token(completed)
  - [BE] [User] authentication
  - [BE] [User] model, serializer, views, tests
  - [BE] [Comment] model, serializer, views, tests
  - [BE] [Like] model, serializer, views, tests
  - [BE] [Article] model, serializer, views, tests
  - [BE] [Response] model, serializer, views, tests
  - [BE] [Question] model, serializer, views, tests
  - [BE] [Post] model, serializer, views, tests
  - [BE] [Adoorback] base model, serializer, permissions, utils
  - [BE] Celery crontab, honeypot, jwt auth, session auth, question seed
  - [BE] models refactoring
- **Jina Park**
- [FE] Anonymous Feed Page(completed)
  - [FE] <ShareSettings/> component(completed)
  - [FE] <NewPost/> component(completed)
  - [FE] Login Page(completed)
  - [FE] user.js redux module(work in process)
  - [FE] <PostDetail/> component(work in process)
  - [FE] <PostEdit/> component(work in process)
- **Jinsun Goo**
- [FE] <Header/> component(completed)
    - <NotificationDropDownList/>, <NotificationDropDownItem/> component(completed)
  - [FE] <QuestionListWidget/> component(completed)
  - [FE] <FriendListWidget/> component(work in process)
    - <FriendItem/>(completed)
  - [FE] <CustomQuestionModal/> component(completed)
  - [FE] <QuestionItem/> component(completed)
  - [FE] question.js redux module(completed)
  - [FE] Question Feed Page(completed)

## Sprint 4 Plans

### - [FE]

- <NewComment/>, <CommentItem/> (규리)
- Friends Page(규리)
- Post Edit/Delete API Linking(규리)
- <PostDetail/>+ API linking(지나)
- <QuestionSendModal/>(지나)
- UserPage (재원)
- Search + Search Results Page(재원)
- <FriendWidget/> API linking(진선)
- Question Detail Page(진선)
- Notification Page + Noti API linking(진선)

### - [BE]

- [FriendShip], [Friend Request] Model + Serializer, View(지나)
- [Response Request] Model + Serializer, View(진선)
- [Notification]
  - Model + Serializer (규리)
  - View
    - Friend Request(+Friendship)(지나)
    - Like, Comment(규리)
    - Response Request(+ Response)(진선)
- JSON validation(재원)
- API Testing(재원)
- ML Features(재원)

**\*\* 토요일 5시 전까지**

### **Sprint Report 각자 채울 것 채우기**

- **difficulties**
- **testing**
- **contribution**

### **Wiki 업데이트**

- design & implementation 바뀐 부분 업데이트
  - ~~ER diagram~~
  - ~~api~~
  - ~~axies~~
- ~~plan 에서 완료된 부분 mark (design & implementation에서 progress update)~~
  - ~~sprint, assignees, finished 체크~~

### **develop branch 업데이트**

- *Tag a branch or revision in your repository to identify the code you want to submit for sprintN (replace N with 1, 2, ...). The date and time of this revision should be before the deadline. This branch should include a README file with instructions on how to run the application and tests.*
- *yarn install*
- *yarn start*
- *yarn test --coverage --watchAll=false*

*cd backend/adoorback*

*pip install -r requirements.txt*

*python manage.py makemigrations account feed comment like*

*python manage.py migrate*

*# for seed data*

*python manage.py shell*

*from adoorback.utils.mock\_seed import set\_seed*

*set\_seed()*

*python manage.py runserver*

<BE Testing>

BE Authentication - 재원

BE View testing - 재원

BE pylint - 재원

<FE Testing>

QuestionListWidget - 진선

QuestionFeed - 진선

question module - 진선

NewPost - 지나

AnonymousFeed - 지나

ShareSettings - 지나

Login (테스트에 수정사항 반영) - 규리

post module - 규리