

MSC Online Platform Software Design Document

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Lead Programmer: Daekyung Kim
Project Owner: MSC
Designer: Haseung Lee*

Build MSC An Online Platform

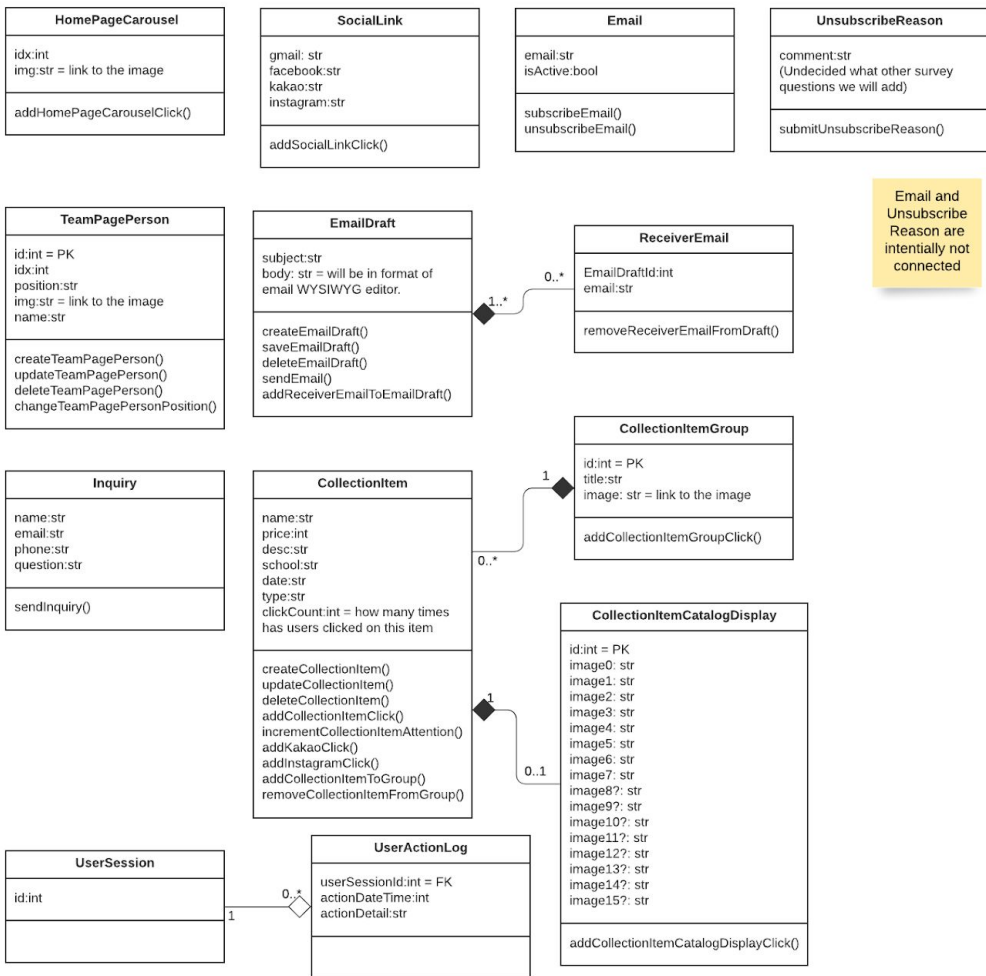
Online platform that does the following:

- *Introduce MSC and the members*
- *Provide an online community*
- *Showcase products that are available at the Retail Revolution Store*

Progress So Far:

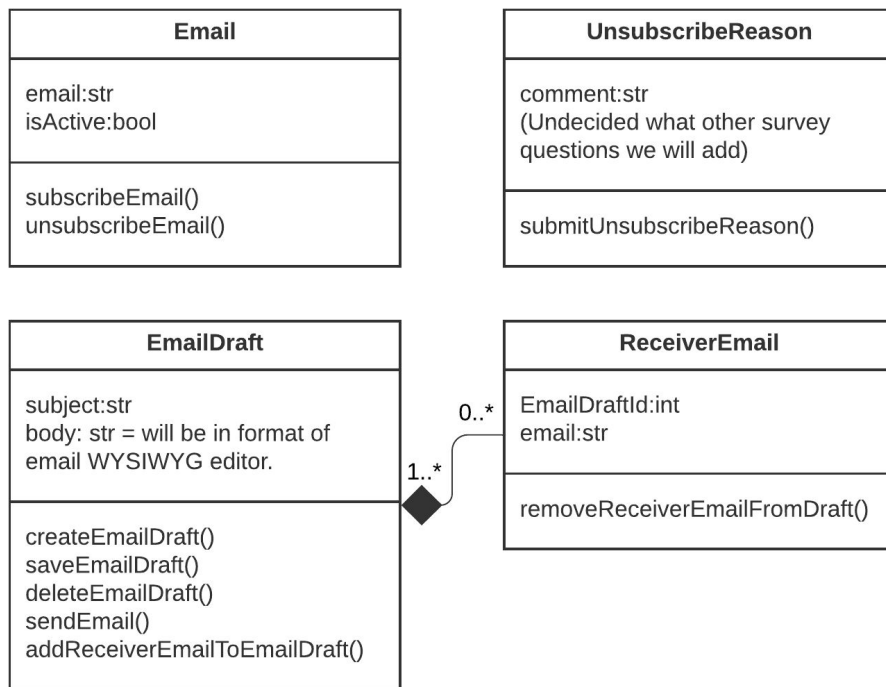
1. *Created mid-fidelity prototype and received feedback*
2. *Created the frontend of our web development*
3. *Weekly meeting with MSC, including Professor Bess*

UML Class Diagrams

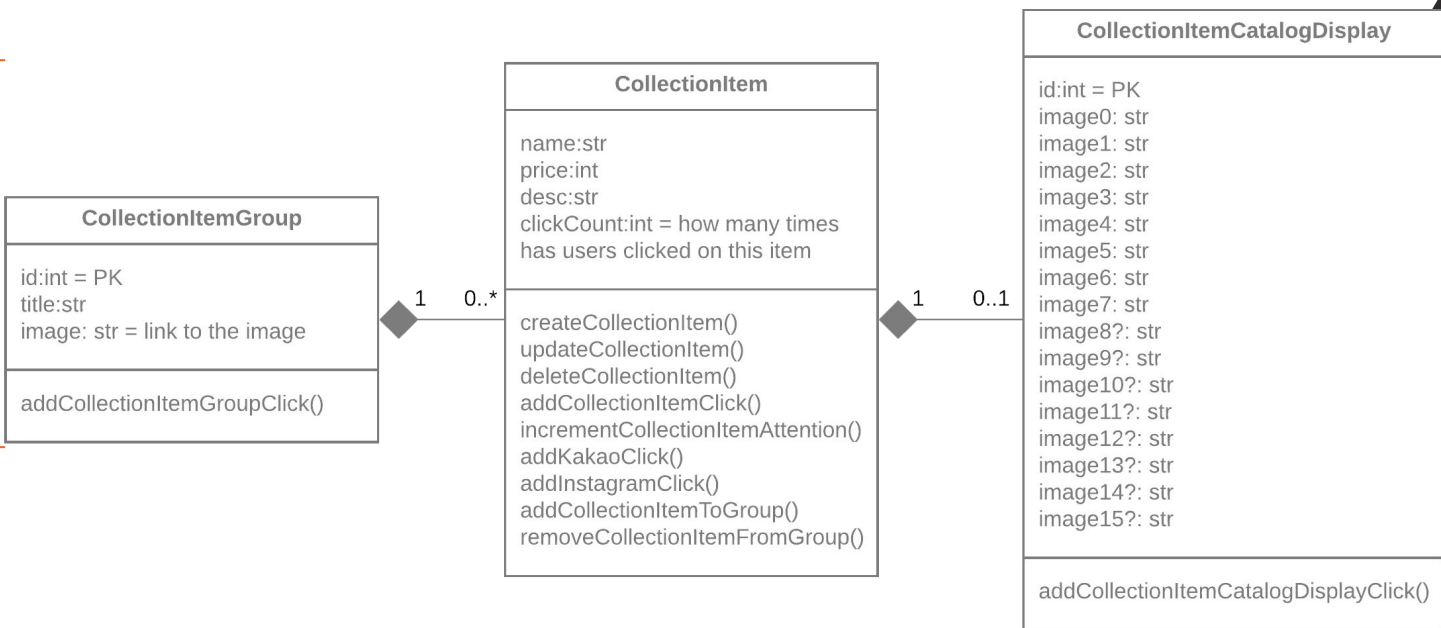


Email and Unsubscribe Reason are intentionally not connected

UML Class Diagram – Email

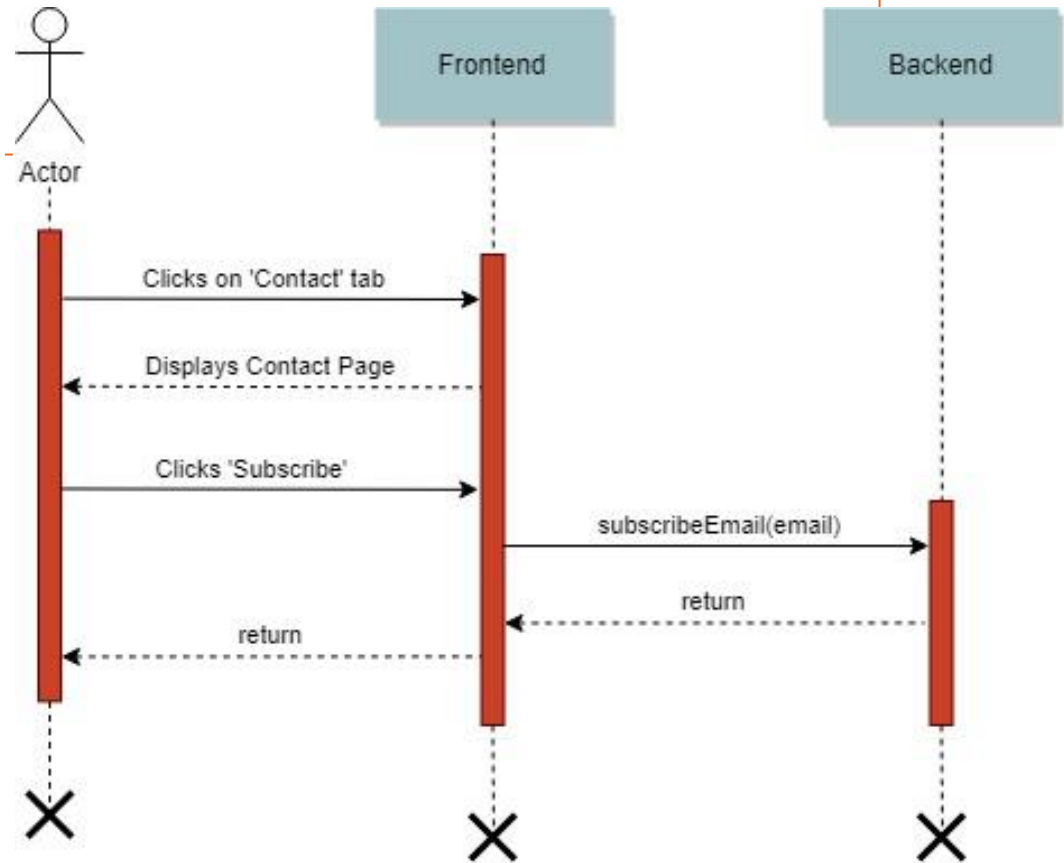


UML Class Diagram – Collection Items



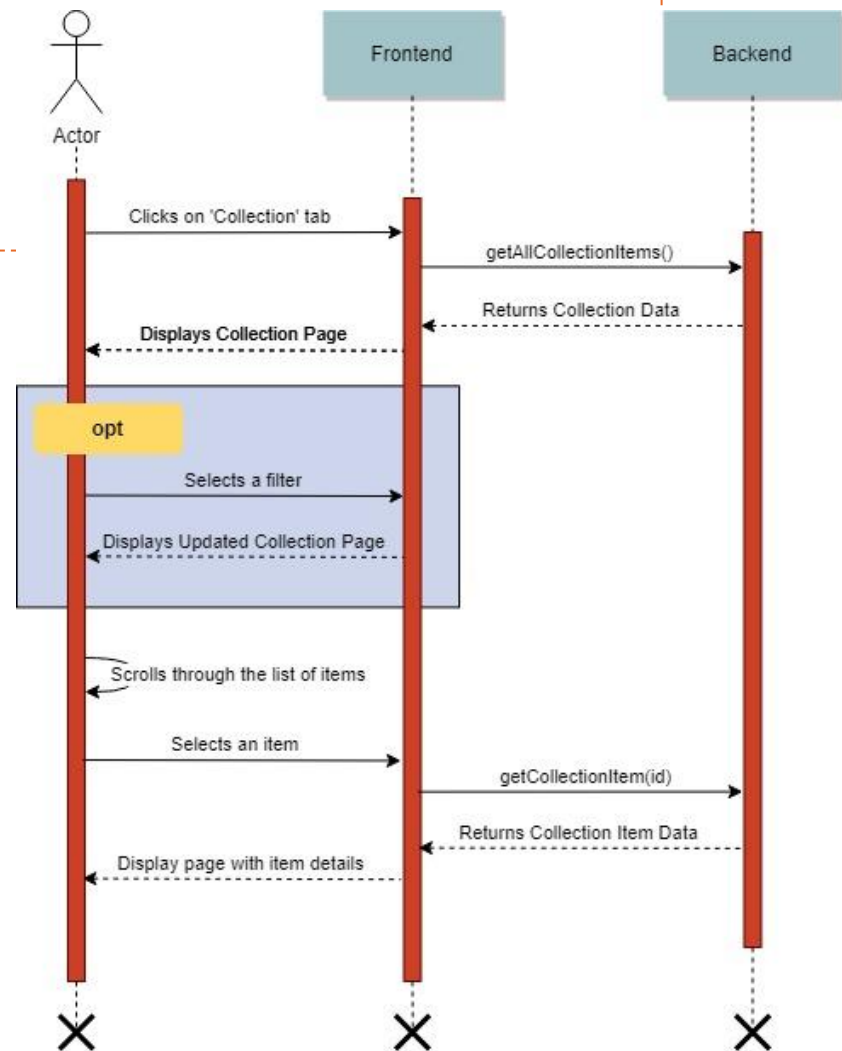
UML Sequence Diagram

- Mailing List



UML Sequence Diagram

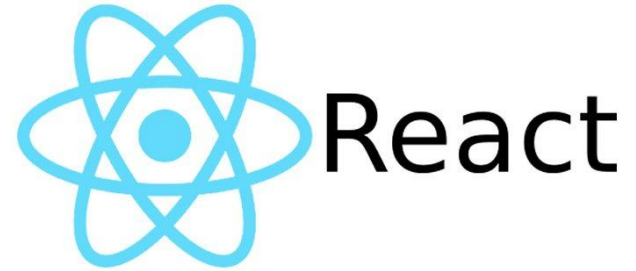
- Find Out About MSC Products



Main Technologies Used

Frontend

- React.js (Version 16.14.0)
- React-Rotation : 360-degree Rotating Image
- Pannellum-React : Virtual Reality



Backend

- Django 3 + Django-Rest-Framework
- Django Heroku
- Django Cors Headers



Deployment

Frontend Deployment: <https://merchandising-society.web.app/>

- **Firebase Deployment**



Firebase

Backend Deployment: <https://sunyk-msc-backend.herokuapp.com/>

- **Heroku Deployment**



heroku

Conventions Used

HTML and CSS

- Google HTML/CSS Style Guide:
<https://google.github.io/styleguide/htmlcssguide.html#CSS>

Javascript

- Google Javascript Style Guide:
<https://google.github.io/styleguide/jsguide.html>

Python

- Standard python convention, PEP 8:
<https://www.python.org/dev/peps/pep-0008/>

Schedule

- The project is managed via Trello
- Tentative Schedule
- Polished version submitted to MSC



Date	Milestone	Assigned To	Task
October 16	1	Haseung Lee	[API] Create the excel document that will have the list of API and details.
October 19	1	Everyone	[Frontend] Manage Subscribers section (Admin) done - <i>David</i> [Frontend] Search Bar in Collections page done - <i>Daekyung</i> [Backend] Start CRUD API for Subscribers section - <i>Haseung</i>
October 21	1	Haseung Lee	[Backend] Create the models for the data. [API] Add CRUD API for the models
October 23	1	Everyone	[Frontend] Web Analysis Section (Admin) done - <i>David</i> [Frontend] Products page will be done - <i>Daekyung</i> [Backend] Implement CRUD API - <i>Haseung</i> [API] Start creating more complicated API calls as well - <i>Haseung</i>
October 26	1	Everyone	[Frontend] Our Team & About Us page (Admin) will be done - <i>David</i> [Frontend] Check if users page and admin pages work accordingly - <i>Daekyung</i> [Backend] Should be in the process of implementing the rest of the api - <i>Haseung</i> [API] Completed excel document with all required API - <i>Haseung</i>
October 30	2	Everyone	[Frontend] Should be complete - <i>David & Daekyung</i> [Backend] Should be complete - <i>Haseung</i>
Nov 2	2	Everyone	Bugs fixed on the sections each worked on.

Thank You

Questions?