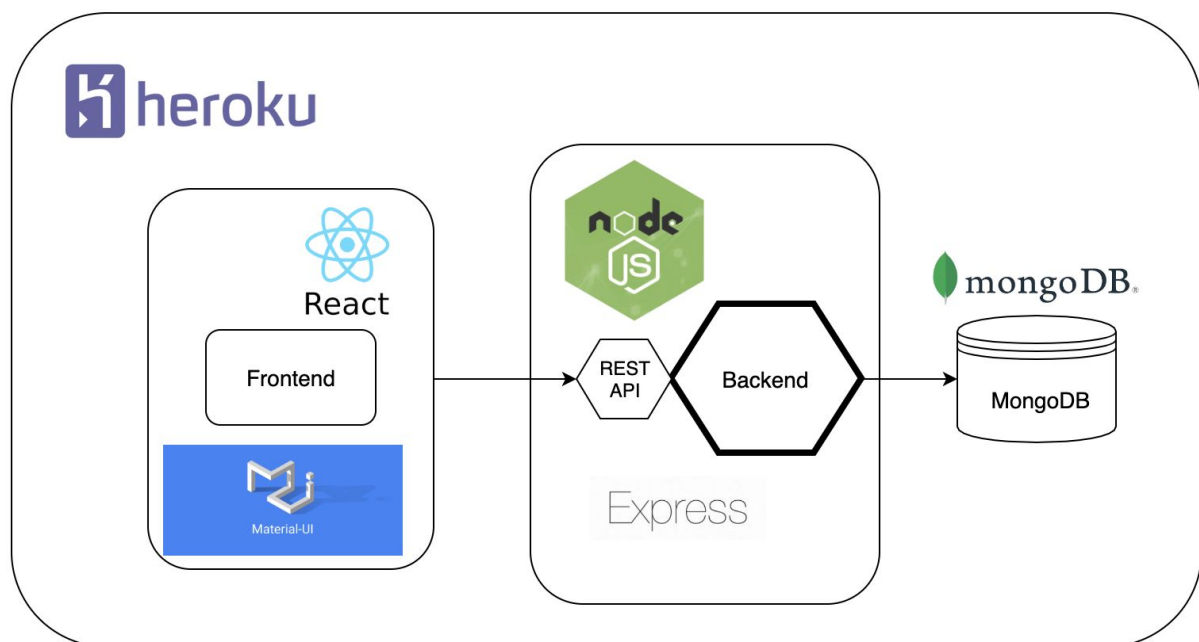


Architecture Diagrams

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1 High-Level Diagram



Frontend: React.js

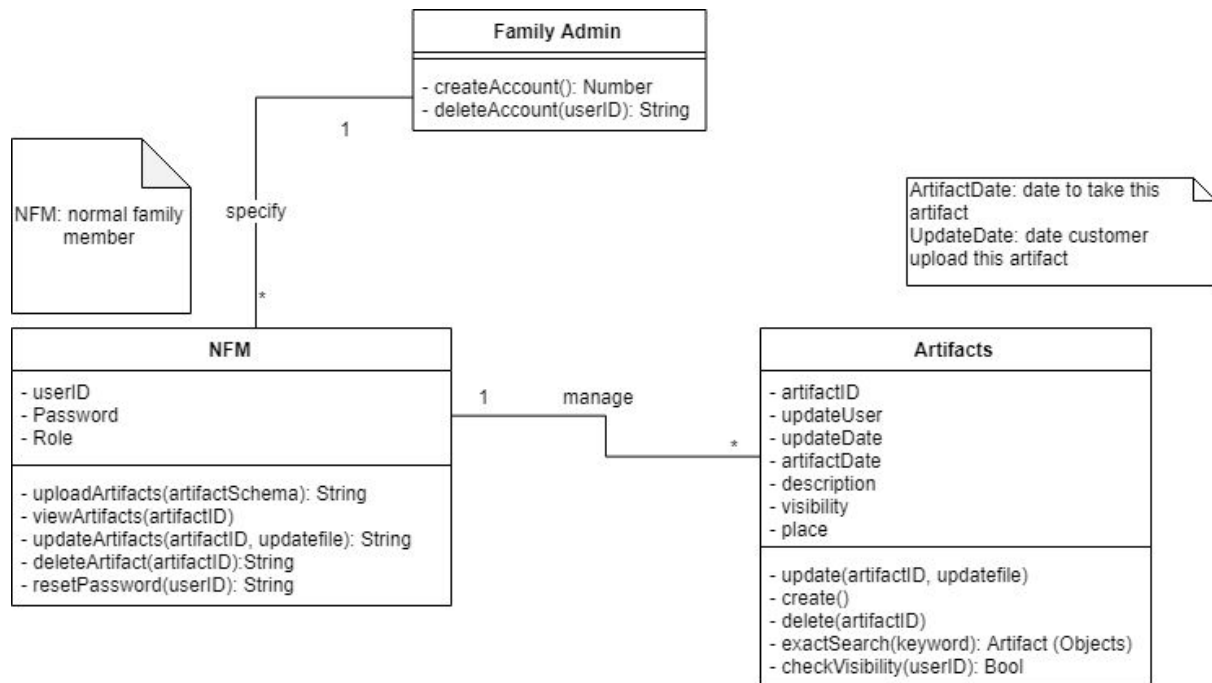
Backend: Express.js

Database: MongoDB

Deployment: Heroku

Link: <https://drive.google.com/file/d/1xv04wkhmxTO6Js0qGQXu-fqcAHGO-hkW/view?usp=sharing>

2 Domain Diagram

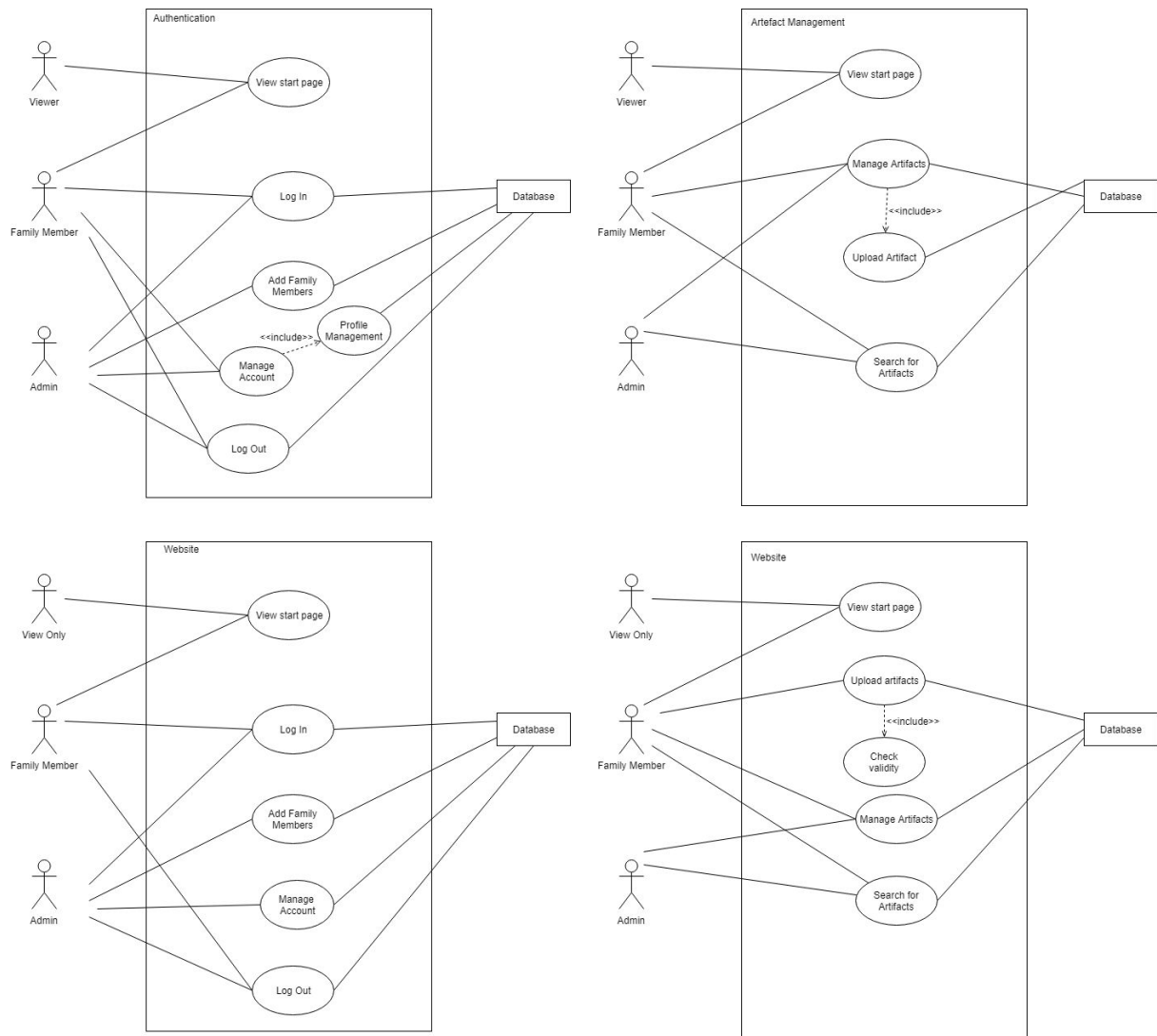


Normal family members can use their userID and user password to the website and view, upload or update artifacts. Family admin is a special user who can also generate or delete account for normal family members.

Link:

<https://drive.google.com/file/d/1w7D8WbMy1EtNljxHJLEt3OACUPmklN1P/view?usp=sharing>

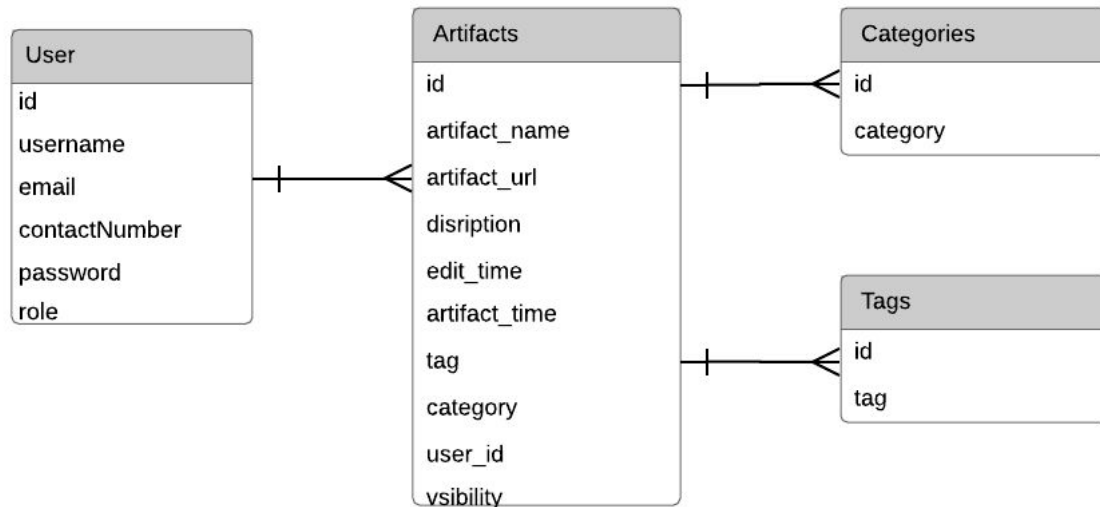
3 Use Case Diagram



Link:

https://drive.google.com/file/d/14Bgl3VIVffjpXqtOHyd1P2jC-OsMB_6L/view?usp=sharing

4 Database Diagram



The database mainly has 4 tables: user, artifacts, categories, tags

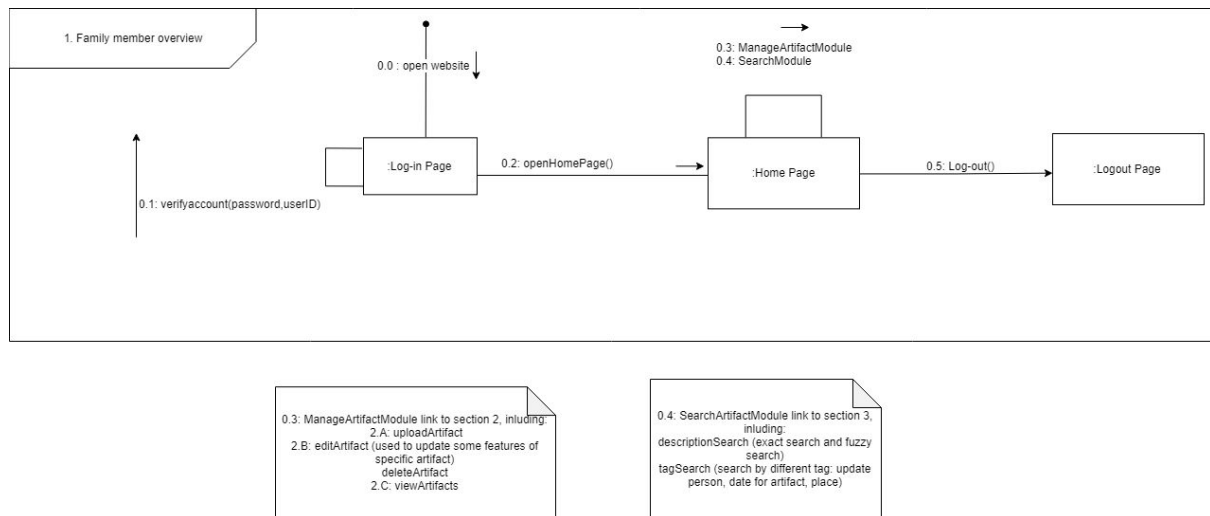
- **user:** store user information
- **artifacts:** store family artifacts information.
 - edit_time: the time user edit the artifact
 - artifact_time: the time of artifact itself (like an artifact in 1990)
 - user_id: the user who upload this artifact
- **categories:** artifacts' categories
- **tags:** artifacts' tags

Link:

https://drive.google.com/file/d/1nB9vSc2nxLK_p9g7VjyvcwZ6tSNp1Zhc/view?usp=sharing

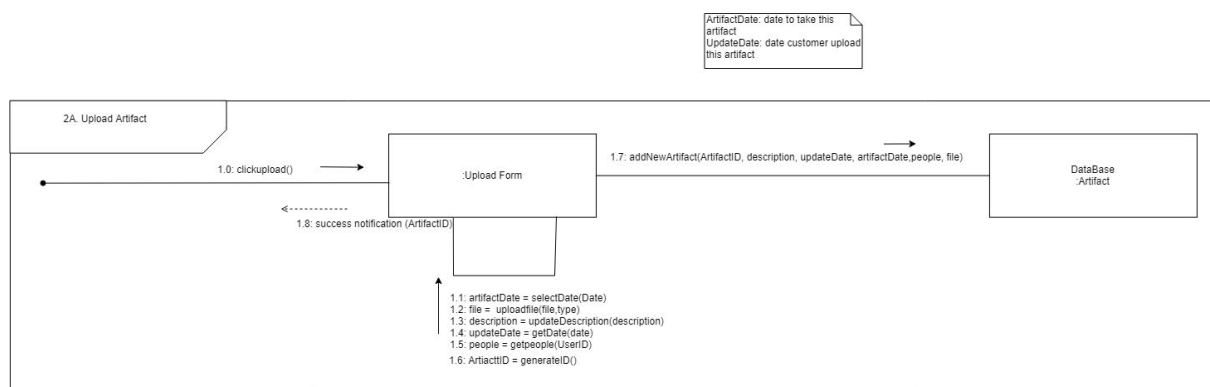
5 Communication Diagram

Section 1: Overview process for normal family member

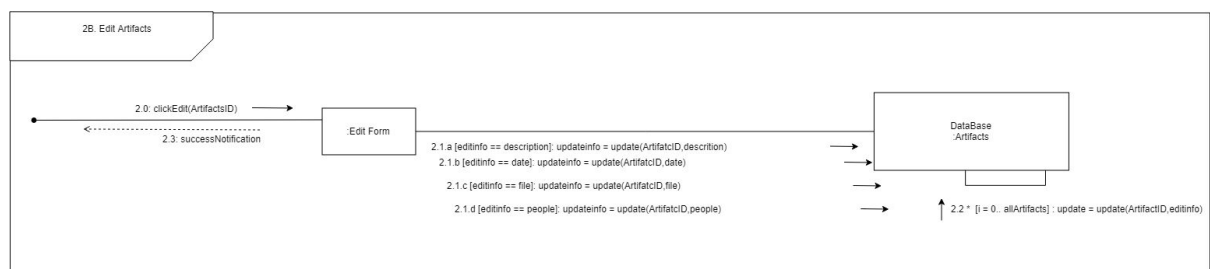


Section 2: Artifacts management section

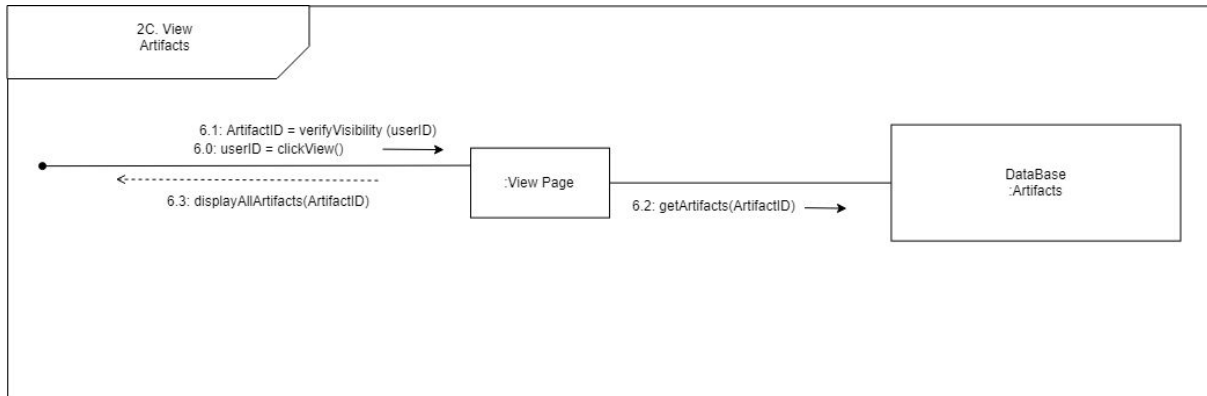
2.A : process when user upload artifacts



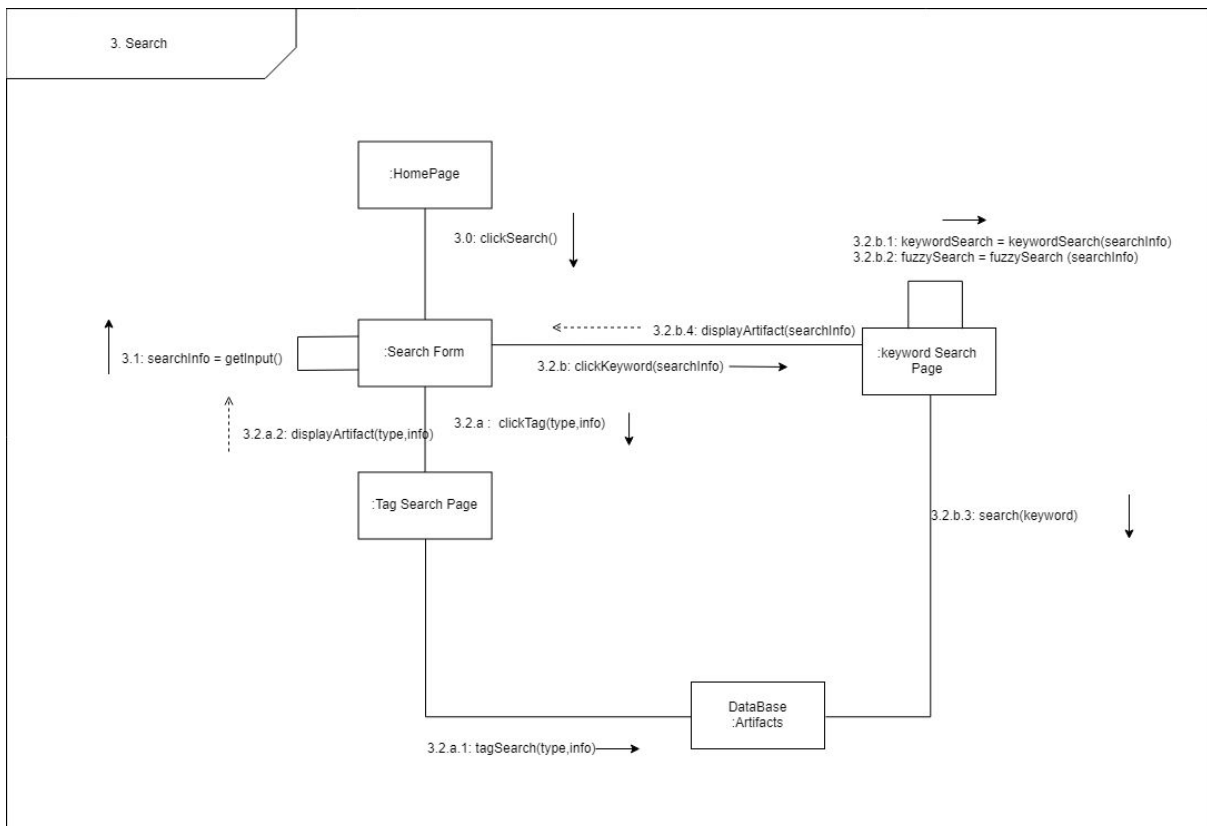
2.B: process for user updates descriptions, tags, date of artifacts related to specific artifact or delete artifact



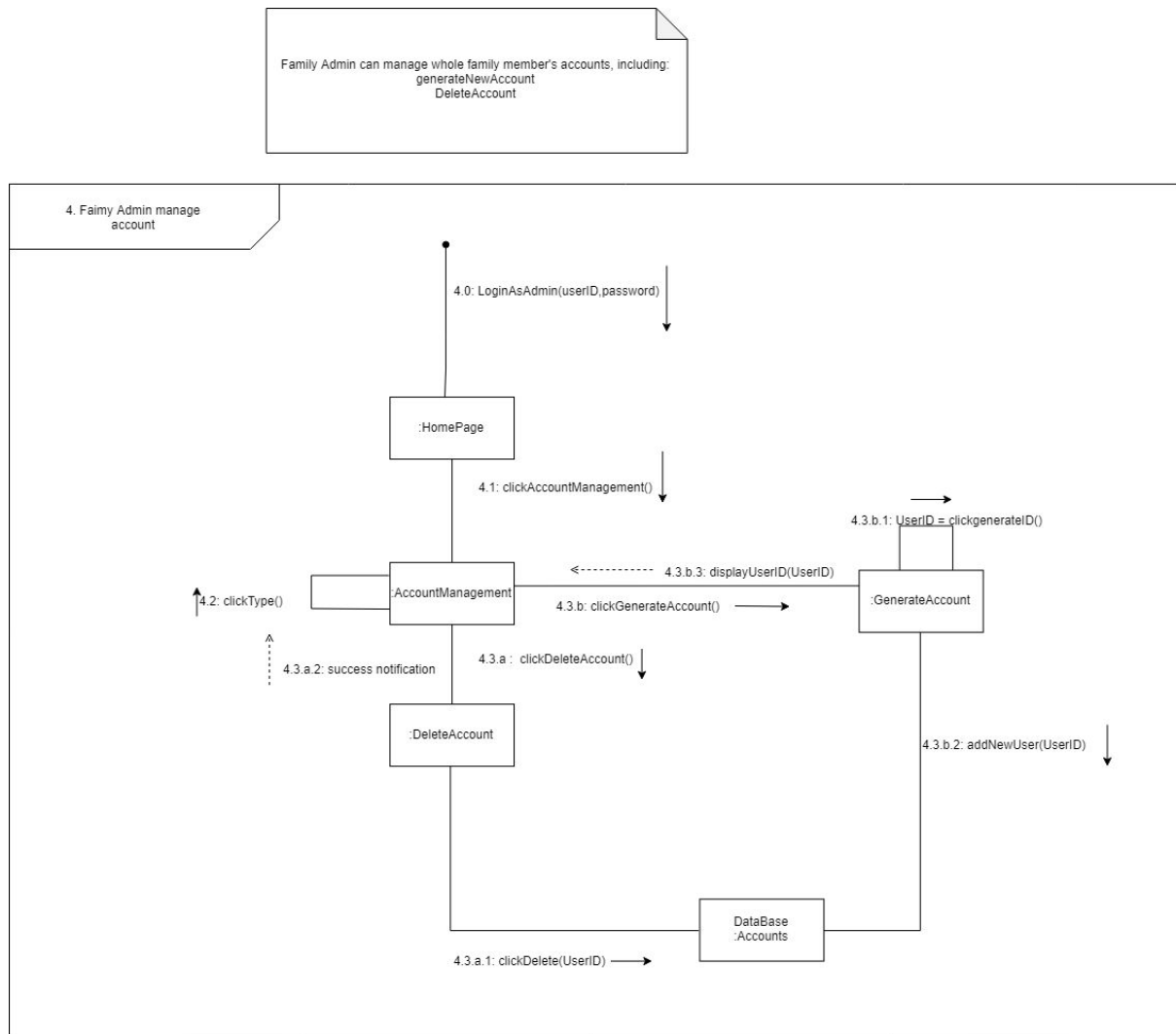
2.C: process when users view artifacts



Section 3: Search functions including exact search and fuzzy search of keyword in description and tag (update person, date, place) search



Section 4: process when family admin generate and delete account



Link: <https://drive.google.com/file/d/1ZWkxLvBktOAQpeJolTyhHdU8VmvLV66/view?usp=sharing>