

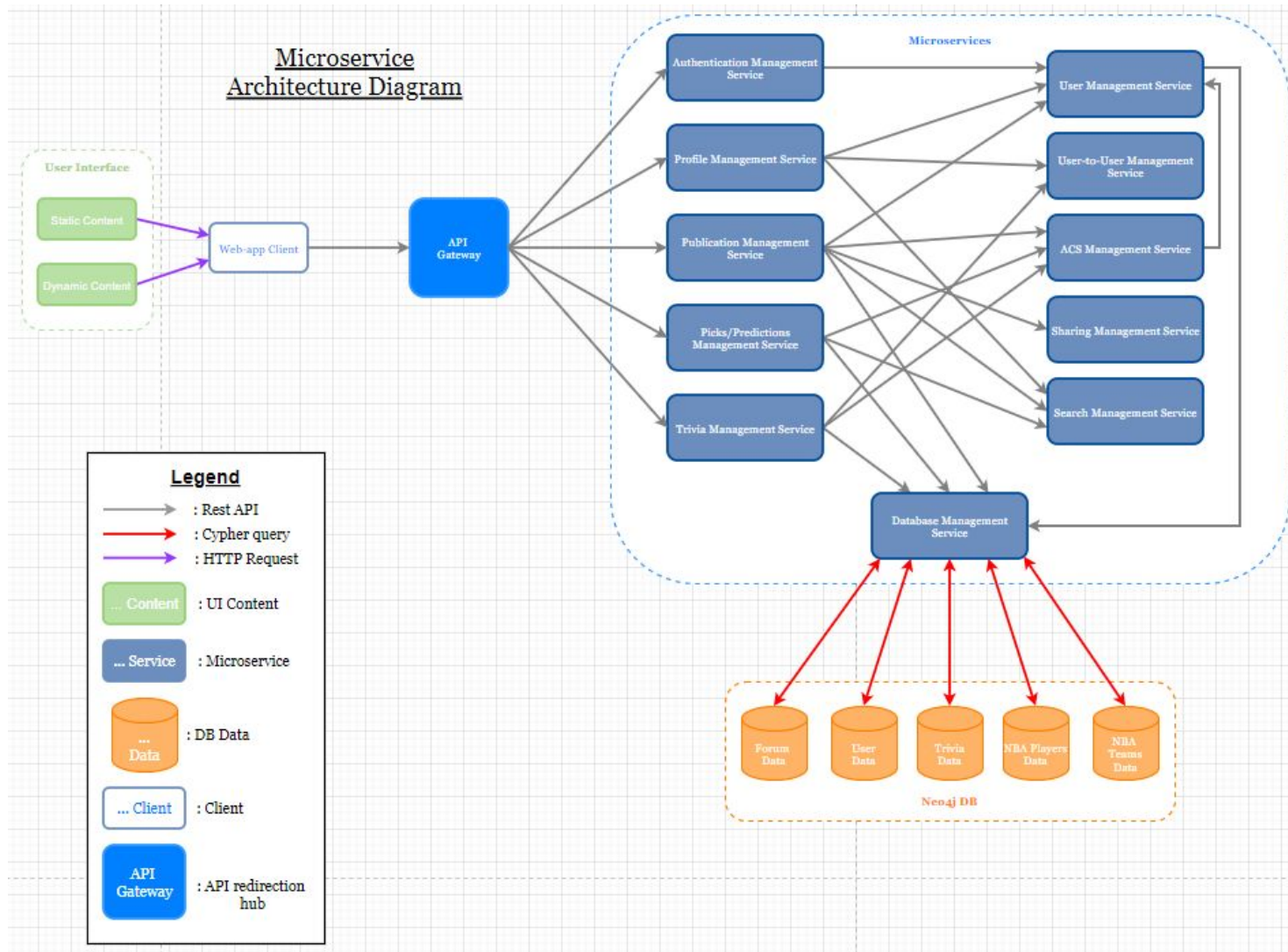
System Design

CSCC01 - CS GANG
Sprint 1

Table of Contents

<u>Software Architecture Diagram</u>	2
<u>CRC Cards</u>	3

Software Architecture Diagram



1

CRC Cards

Class name: Main

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Communicate with the neo4j database
- Send data to other microservices

Collaborators: Trivia, ConsumeRest, UserManagement, PicksPredictions, Publication

Class name: TriviaQuestion

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Stores question author, answer choices and correct answer

Collaborators: ConsumeRest

Class name: Trivia

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Responsible for connecting the database microservice to the front-end

Collaborators: ConsumeRest, Question

Class name: ConsumeRest

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Call database microservice to retrieve data from neo4j

Collaborators: Main, ConsumeRest, Trivia

Class name: Authentication

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Ensure that session is correctly generated based on user's credentials
- Generate a token for user when it logs in
- Create a new user instance when new user signs up

Collaborators: Main, ConsumeRest, SignIn, User

Class name: Profile

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Handling all the related functionality with updating user information(username, password, about)

Collaborators: Main, User, Search

Class name: ChangePassword

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Responsible for communicating with the neo4j database when user updating the password

Collaborators: Main, User

Class name: ProfileTab

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Handling getting & displaying user's ACS score, uploaded posts and debate history from neo4j database

Collaborators: Main, User, ASC, Post, Debate

Class name: Publication

Parent class (if any): N/A

Classname Subclasses (if any): Debate

Responsibilities:

- Responsible for functionality in the debate section
- Regulates interaction between users

Collaborators: Main, ConsumeRest, User, ACS, Sharing, Search

Class name: PicksPredictions

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Responsible for allowing users to search for teams and players so that they can make their picks
- Also responsible for showing the results of the predictions

Collaborators: Main, ConsumeRest, Search, ACS

Class name: User

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Will upkeep anything related to the user
- This will be used as an object that can be easily loaded/unloaded

Collaborators: Main, ConsumeRest, ACS, Profile, Publication, Trivia

Class name: ACS

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Main responsibility is to handle all relevant regulations and calculations concerning the ACS score
- Connect with different microservices (primarily the ACS microservice) to update user ACS

Collaborators: User, Publication, PicksPredictions, Trivia

Class name: Sharing

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Responsible for sharing content from the app with third party apps
- Responsible for sharing SportsCred content to other third party apps

Collaborators: Publication

Class name: Search

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Handles all related functionality regarding searching teams, players, and other users

Collaborators: Profile, Publication, PicksPredictions

Class name: UploadPost

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Responsible to communicate with neo4j database when user uploading new posts

Collaborators: Main, User, Post

Class name: Feed

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Create a feed of posts for an end user to consume
- Collect all posts by author, by time of publication etc.

Collaborators: User, Post, Main, Publication

Class name: Post

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- Store data of post (author, content, time of posting, likes, dislikes)

Collaborators: User