SnippetSpace

Group - 7

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The Problem

This project will provide a way for developers to build a library of code snippets that they commonly use allowing for faster and more robust development cycles.

Necessary Business Benefits:
    Faster development cycles
    More reliable code

Anticipated Business Benefits:
    More standardized methodologies for common functions
    A community of developers to verify code functionalities and bugs

Scope Statement

Aim:

- To provide a platform for developers to store and retrieve code snippets in an organized manner for sharing and storing battle-tested code.

Objectives:

- Store code snippets along with Metadata
- Deliver Relevant code snippets using filters
- Code snippet Sharing among community

Applicability:

- Developers working in a collaborative environment
- Individual developers building a library of recurring functions for quicker use.

Process Model

Process Model -->	V-Model	Incremental	Spiral	RAD
Clear Requirement Specifications	Required	Required somewhat for prototype delivery	Required Less	Required Less
Project Delivery	Takes long Time	Faster	Slower	Faster
Risk of Project Failure	High (doesn't account risk analysis)	Lesser (Project gets better with every delivery)	Lesser (focus on thorough risk assessment)	Lesser
Software Testing	High	More focused on high end services	High	Medium
Change in Requirements	Not supported	Supported	Supported	Supported
Product Visibility	Not Visible till last	Yes	Yes	Yes

Process Model

Incremental Process Model allows us to deliver a prototype with basic features of storing Code-Snippets and then keep adding features in successive Increments.
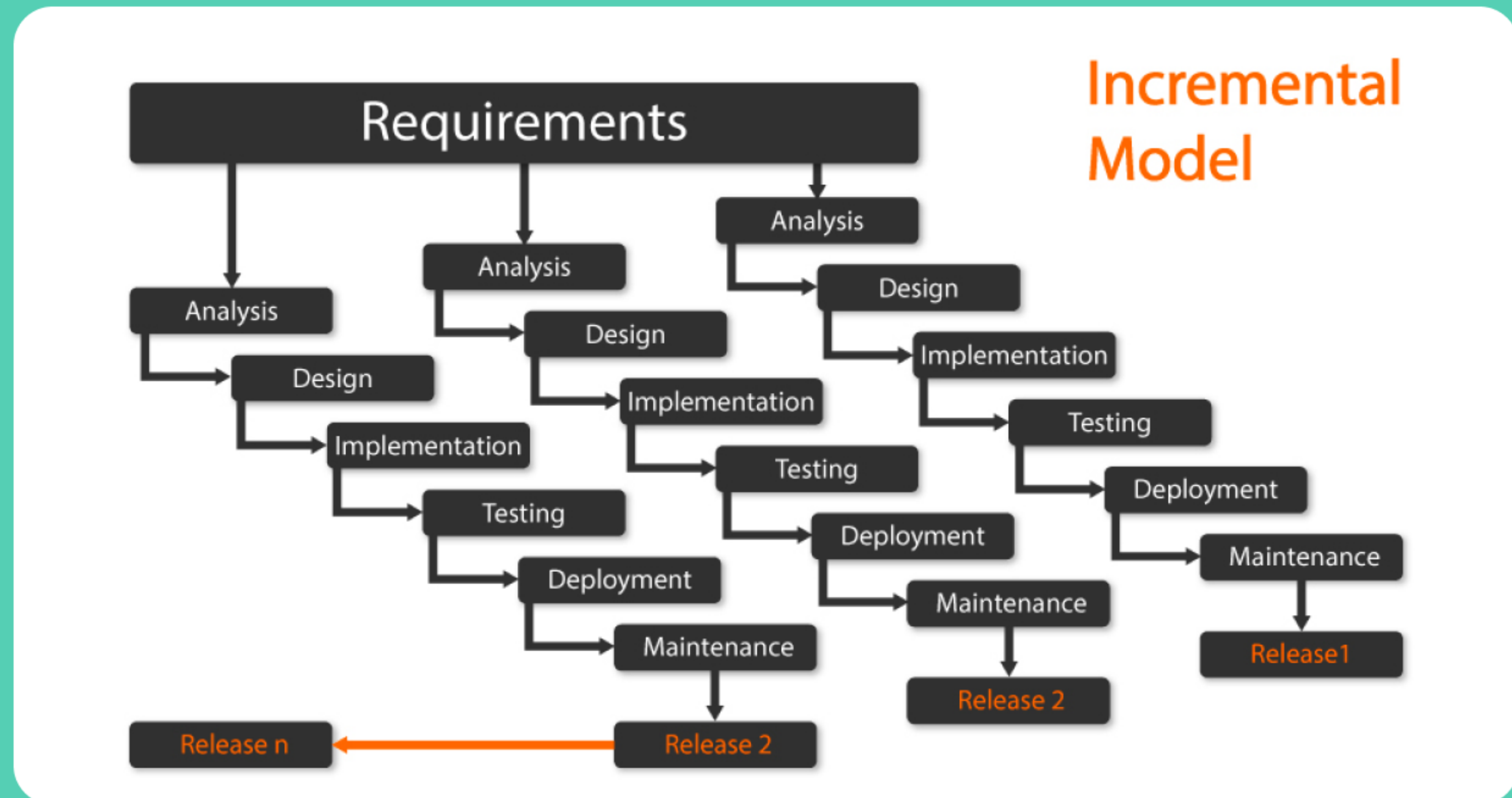
Stake Holders

User

- System shall have provision to store code snippets along with description and instructions
- System shall have provision to update or delete existing code snippets.
- System shall have provision to Select different Sections for different frameworks of development
- System shall have provision to Availability of dashboard for display of Favorite language / framework Code-Snippets
- System shall have provision to Easy copy of Code-Snippets
- System shall have provision to display snippets sorted by time, language or framework
- System shall have provision to display other users' profiles
- System shall have provision to report other users

Admin

- System shall have provision for an Admin to remove users
- System shall have provision for an Admin to add new sections
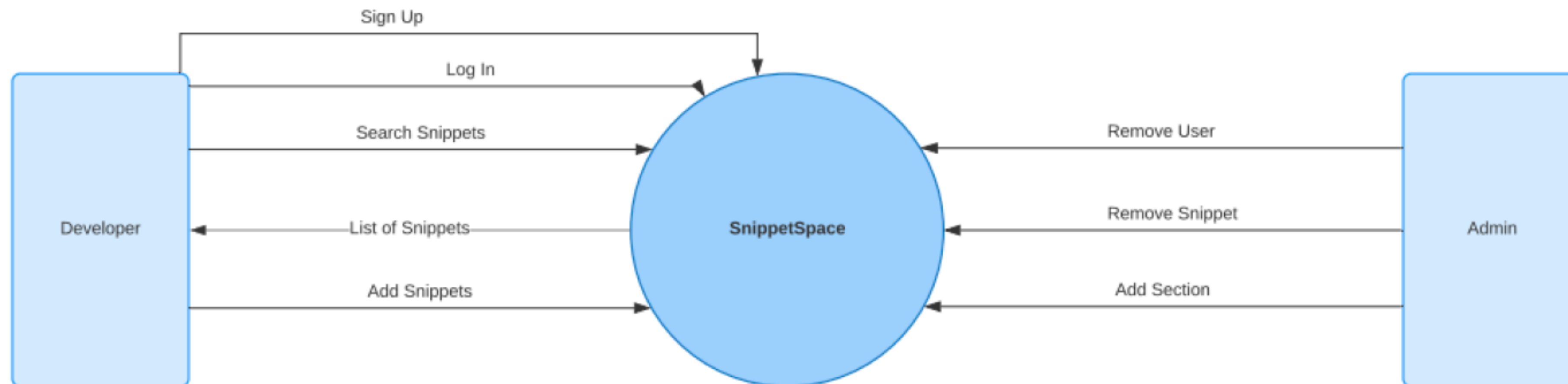
Use Case Diagram
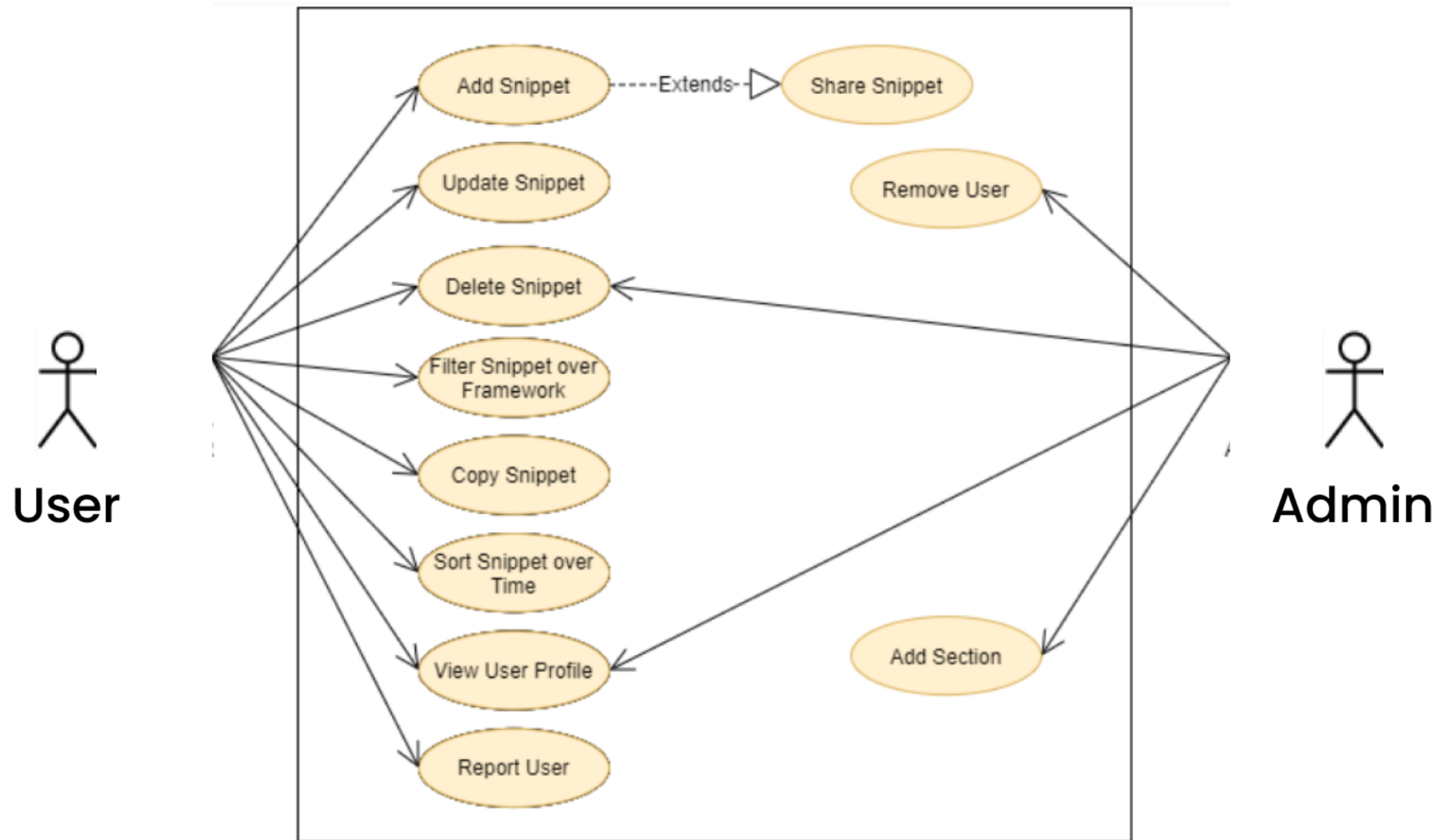
Architectural Viewpoint

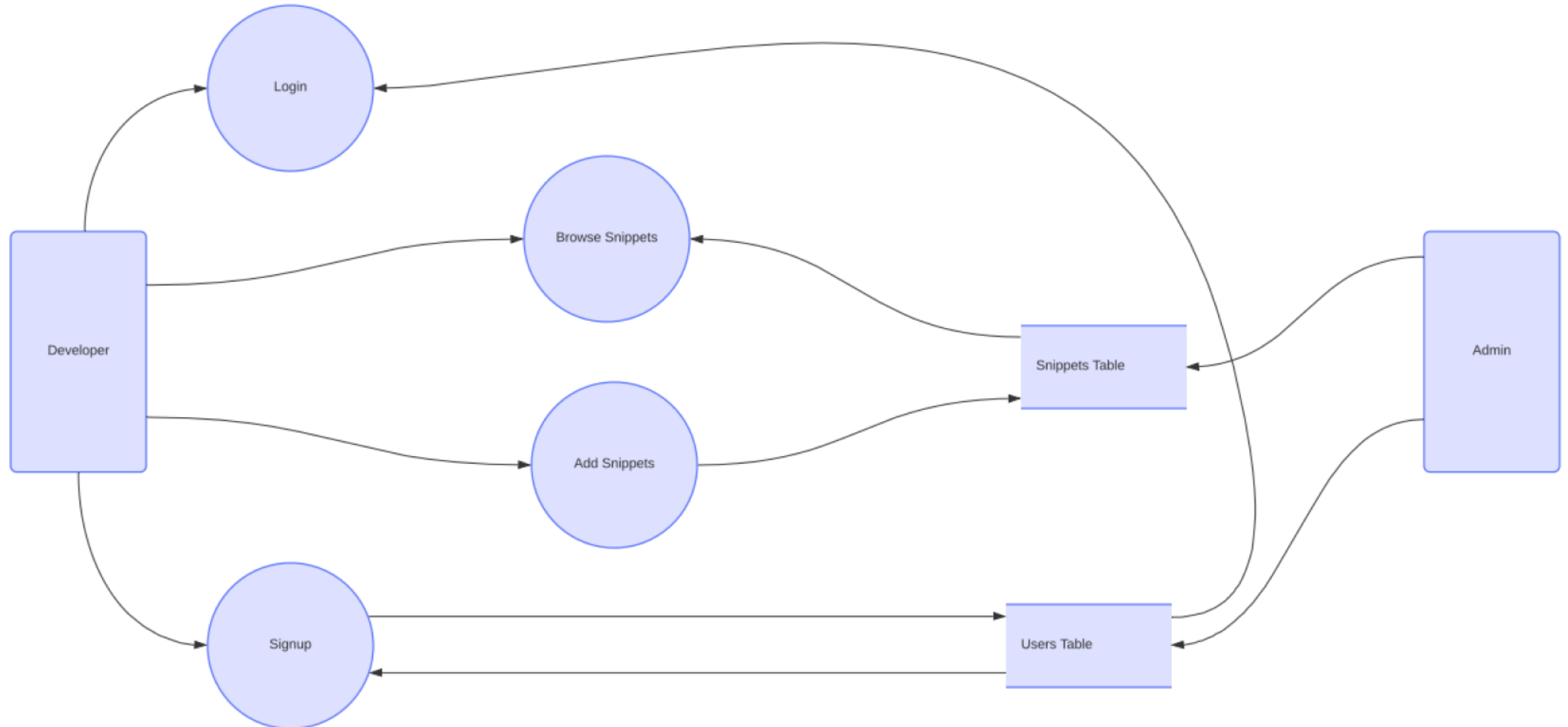# Information Viewpoint

Data Flow Diagrams

Level 0

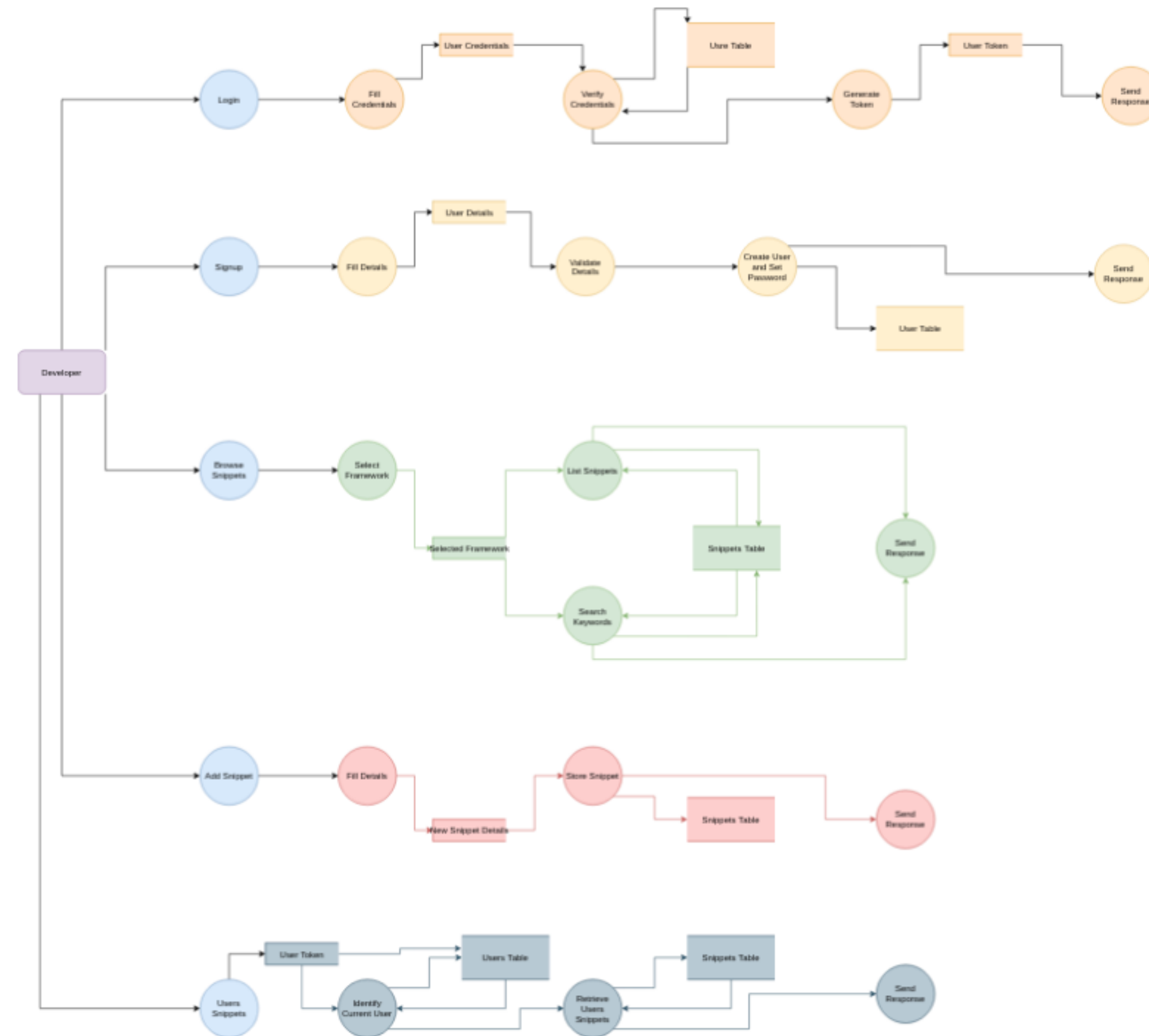Data Flow Diagram: Level 0

Sameeran Bandishti | March 22, 2020

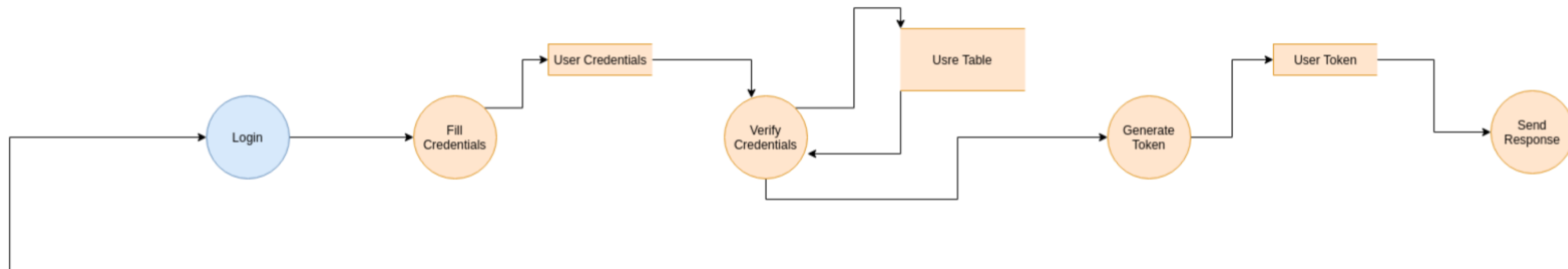# Data Flow Diagrams

Level 1
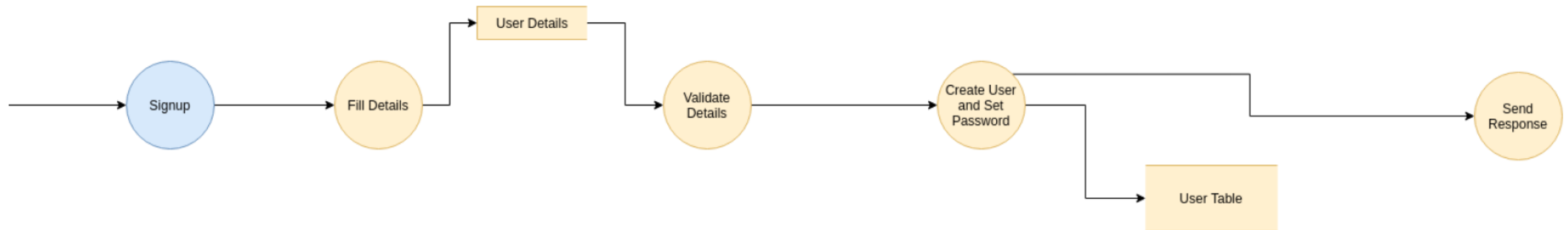
Data Flow Diagrams

Level 2

Data Flow Diagrams

Login

Data Flow Diagrams

Signup

Data Flow Diagrams

Level 2.3

Browse

Data Flow Diagrams

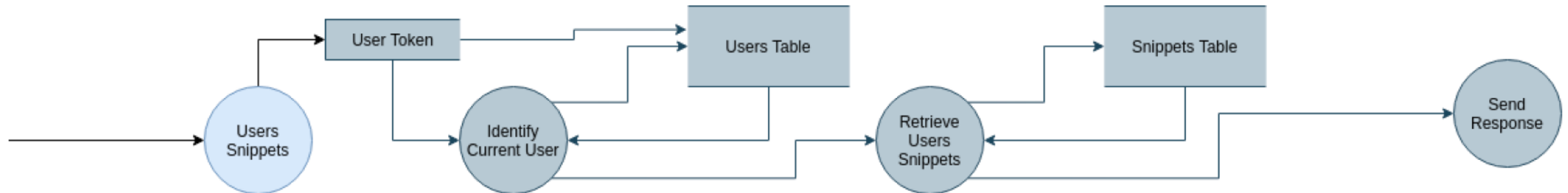## Add
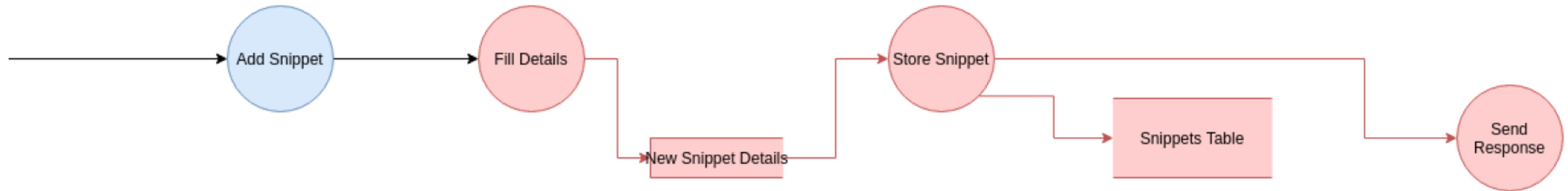
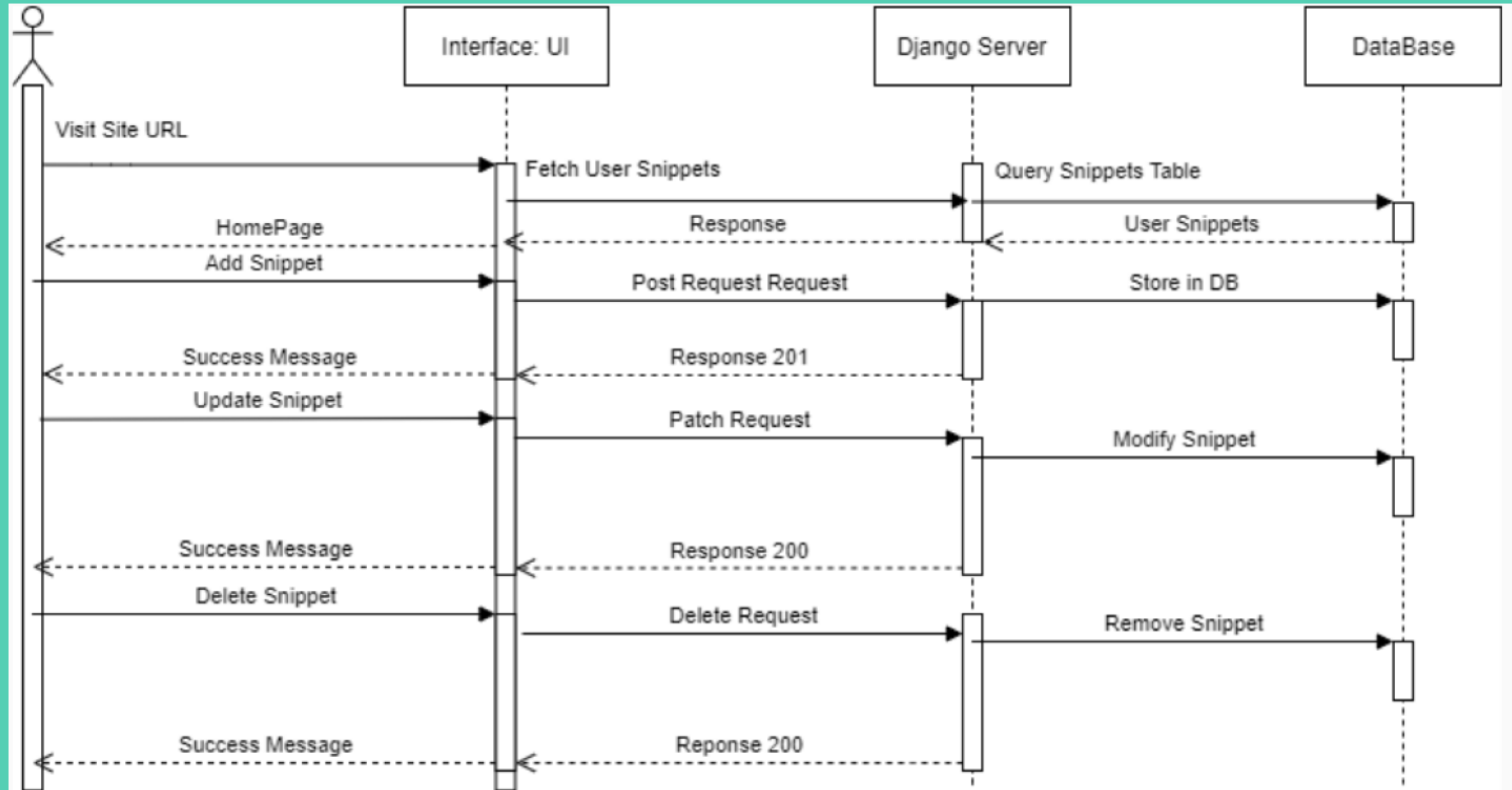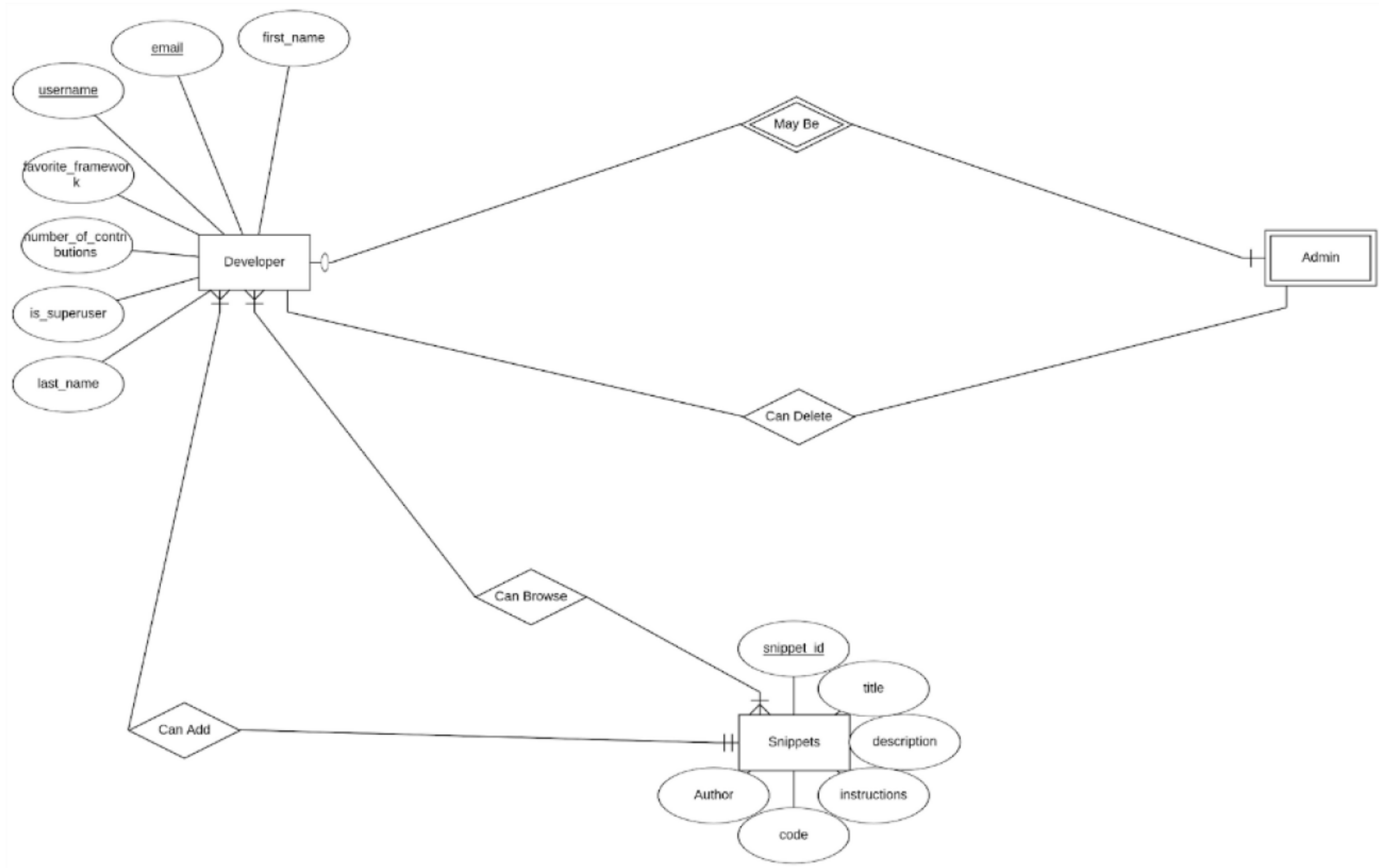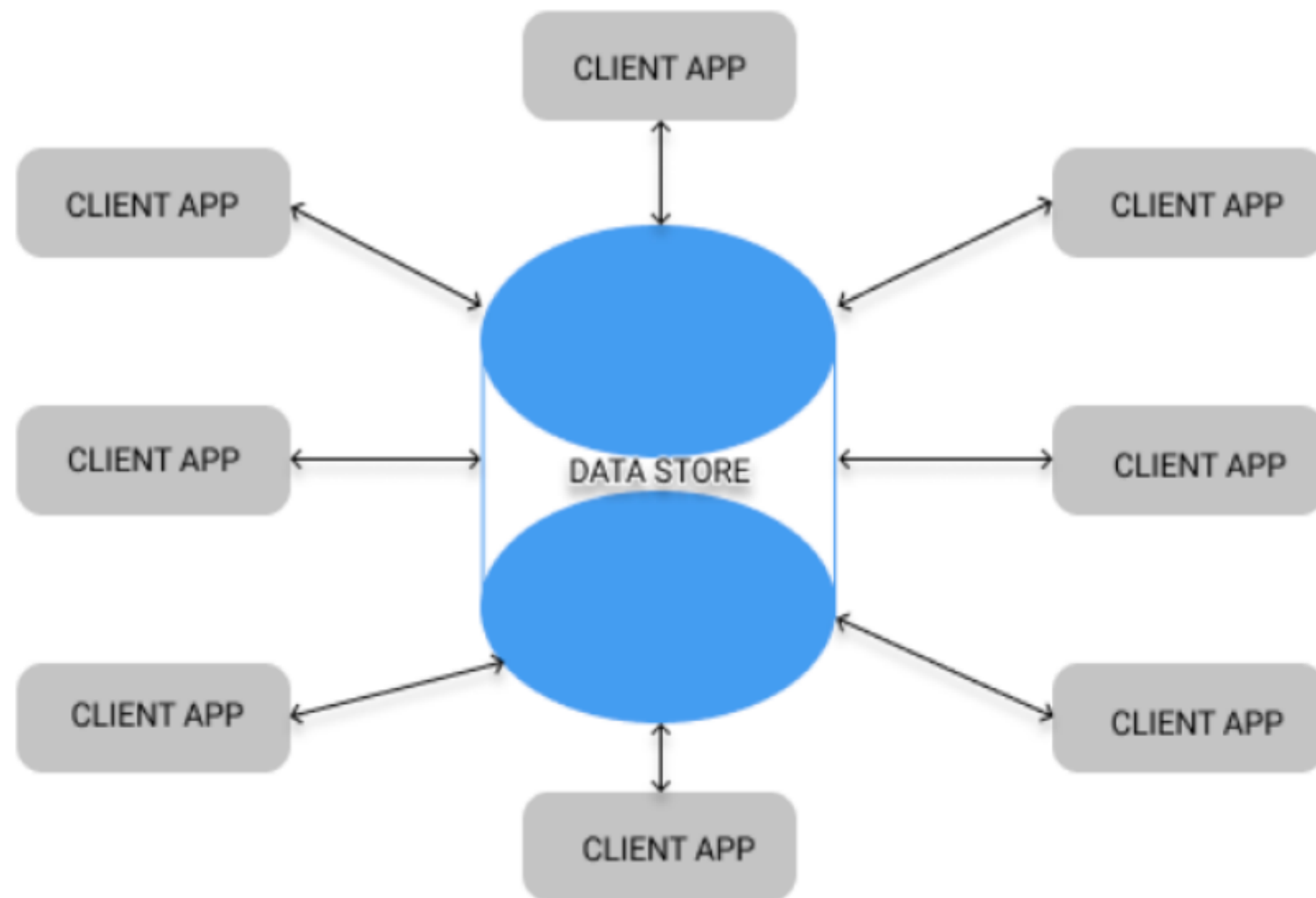# Data Flow Diagrams

My Snippets

Sequence Diagram

ER Diagram

Data Centered Architecture

- Clients operate independently of one another

- Data repository is independent of the clients

- It adds scalability (that is, new clients can be added easily)

- It supports modifiability

- It achieves data integration in component-based development using blackboard

Deployment Model

Login system

Initializes User panel
Initializes Admin panel
Register User

User panel

Initializes Dashboard

Initializes Add/Update/Remove Snippets
Initializes View/Update Profile
Log out

Admin panel

Initalizes View/Remove User
Initializes Delete Snippet

Initializes Add Section
Log out

UserDashboard

fetchUserDetails() String
fetch UserSnippets() String

Snippets

snippetsAPI() void

Logout

Initializes Login system

ReomoveUser

removeUser() void

DeleteSnippet

removeSnippet() void

manageUsers

viewUsers() String
removeUser() void

Deployment Diagram

USER

Application Layer

Django Server: Deployed on Heroku

AWS Bucket: Static File Storage

PostgreSQL DB

SMTP Server

Test Cases

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results
TID1	Check Customer Login with Valid Data	Add Username Add Password Click Submit	Username = "User1" Password = "Pass1"	Successful Login, 200
TID2	Check Customer Login with Invalid Data	Add Username Add Password Click Submit	Username = "NoUser" Password = "SomeText"	Failed Login, 401
TID3	Add Snippet when logged in	Click on Add Snippet Icon Add Snippet Click Submit	Some Text to be paste	Successful Creation of Snippet, 201
TID4	Add Snippet when logged out	Click on Add Snippet Icon Add Snippet Click Submit	Some Text to be paste	No Snippet is Created, 403
TID5	Delete User in Admin Mode	Click View Users Click View This User Click Delete User	-	Successful deletion of User from DB, 200
TID6	Delete User in User Mode	Click View Users Click View This User Click Delete User	-	Rejected Request, 403

SnippetSpace

Thank You

We Would Love To Answer Your Questions

SnippetSpace

"Coding like poetry should be short and concise."

And we're here to help.

Know More

Hey There!

First Name

Last Name

Username

Email

Password

Confirm Password

Sign Up

Already a Member? Log In!

Welcome Back!

Username

Password

Log In

Not a Member Yet? Sign Up!

Django

test	Authentication	HTML Injection	fsdkhj	C++	jfh
abcd	working sample	working sample	Review3	mySnippet	

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