**Software Engineering Group Assignment-02**

**System Modeling**

Group Members:

Ashwin Sai Vagu (vagua01)

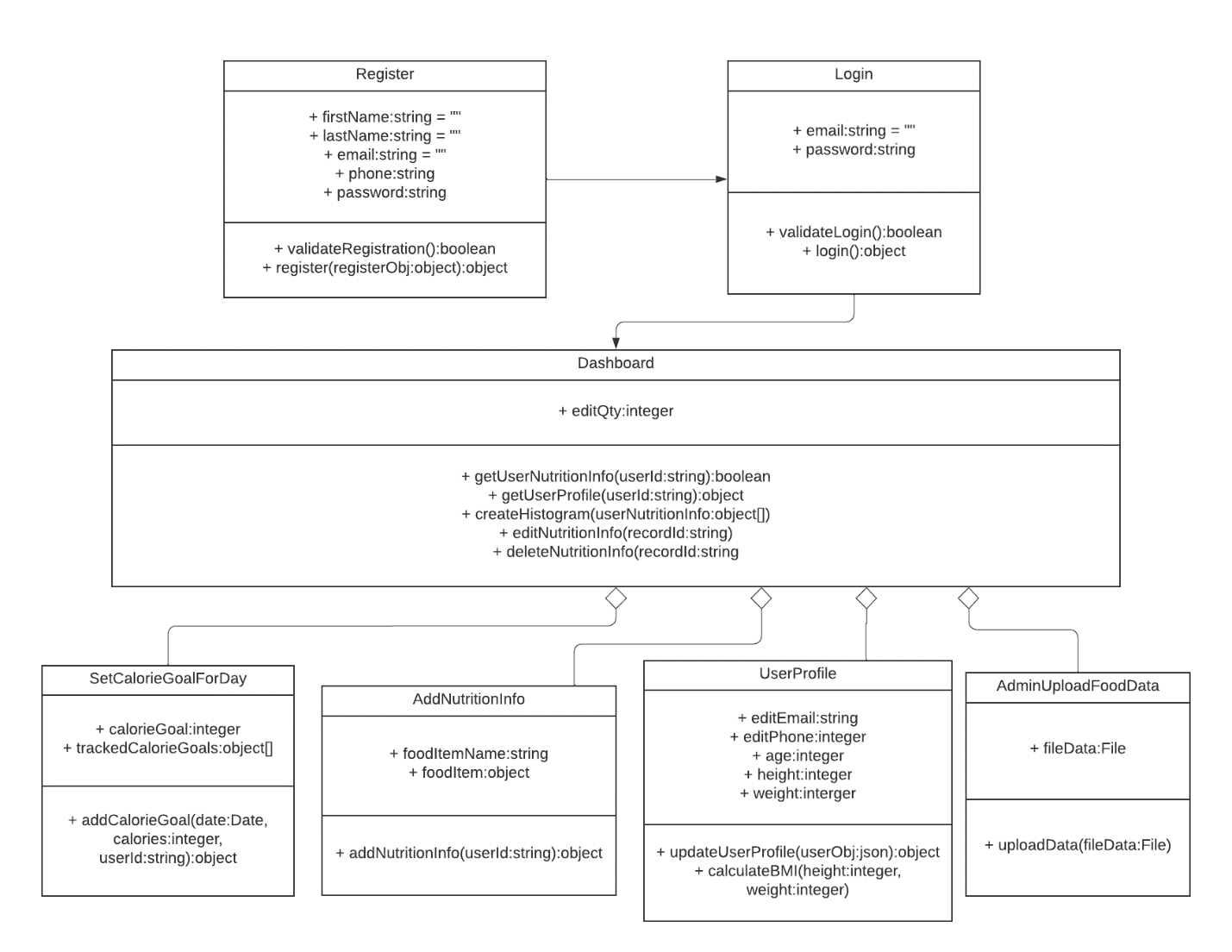
Sai Nikhil Attili (attis01)

Sudhanshu Marimganti (sudhm01)

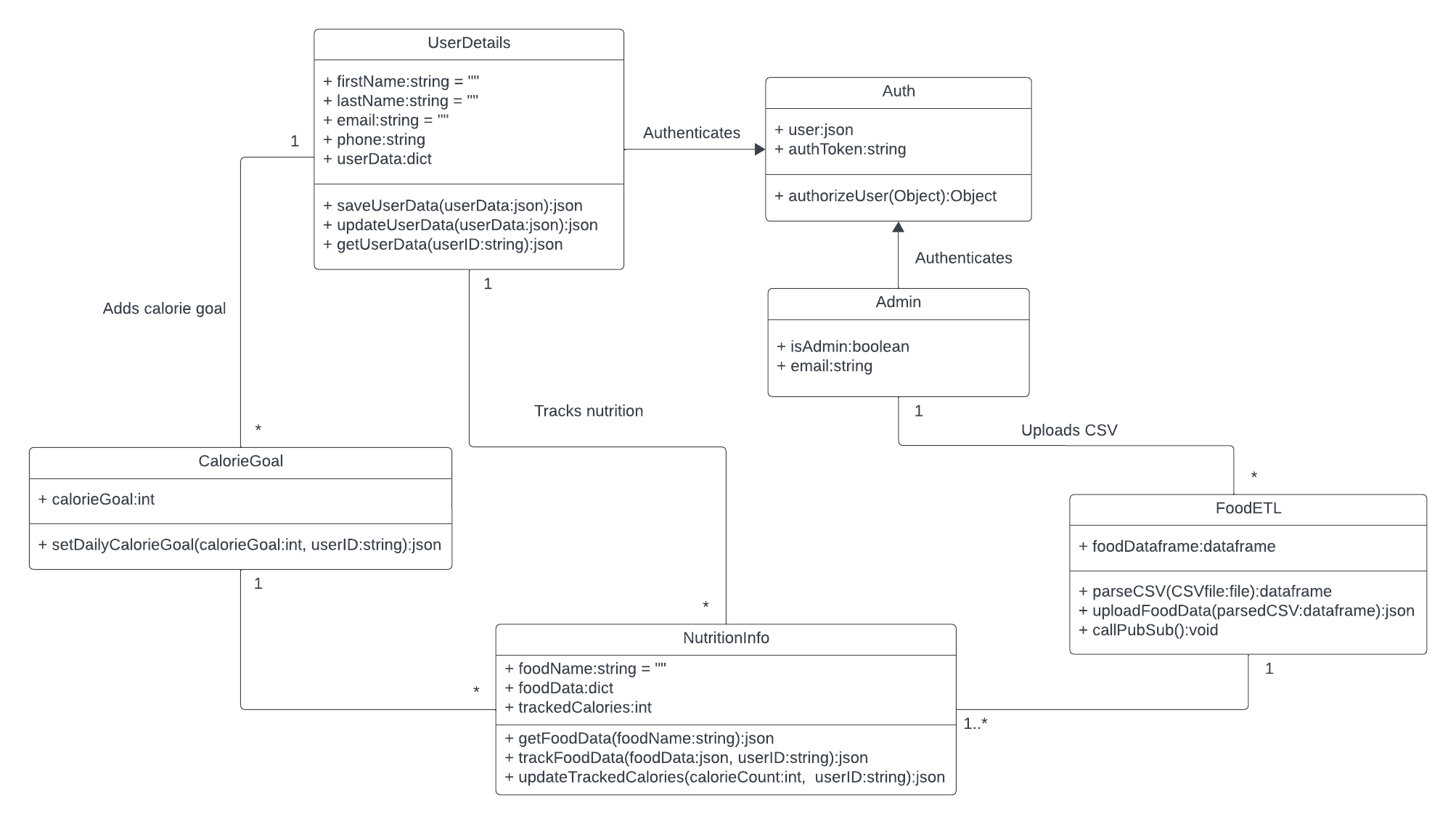
Abhinav Narayana Kapa (kapaa01)

**1. Class Diagrams**

Client side:

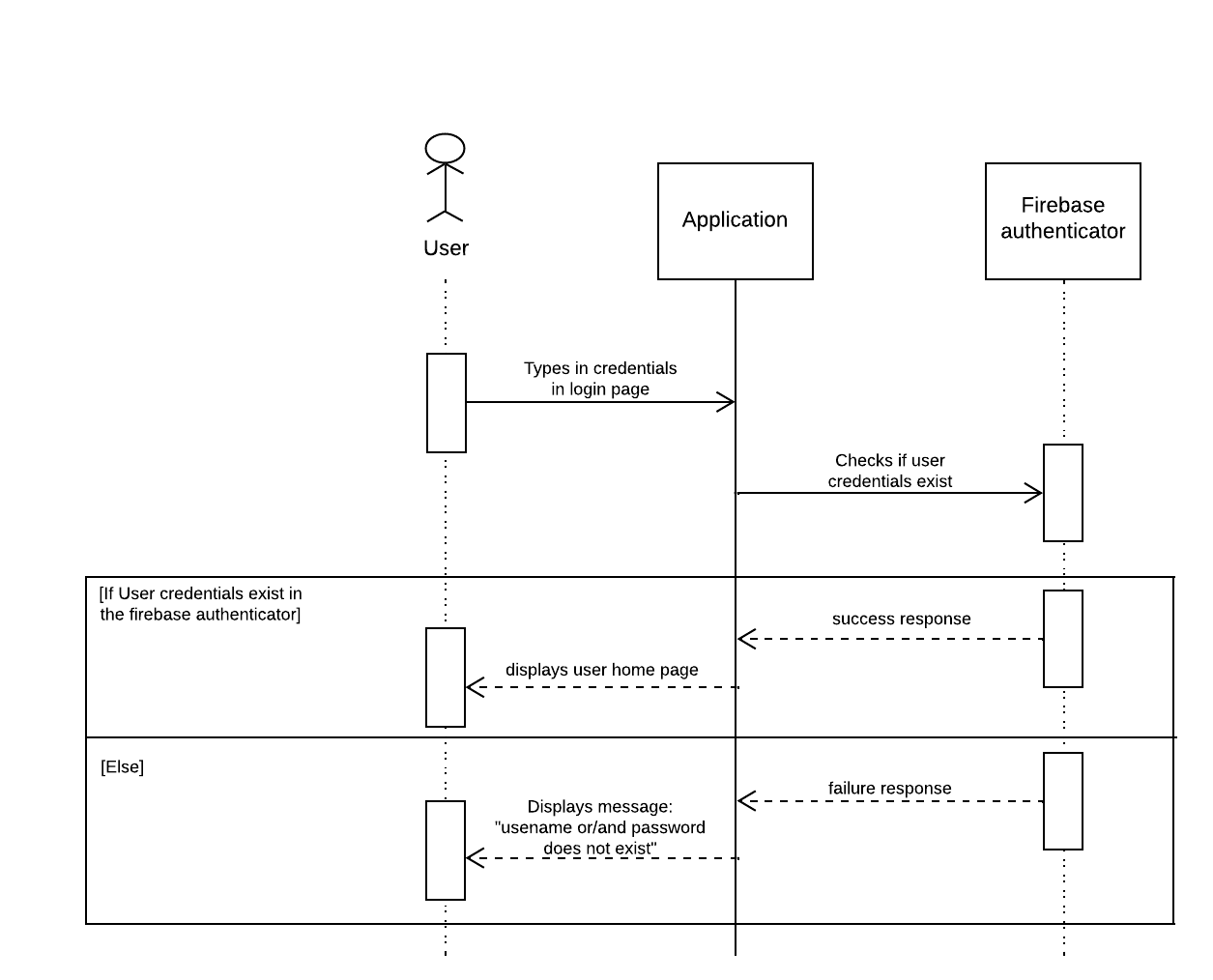


Server side:

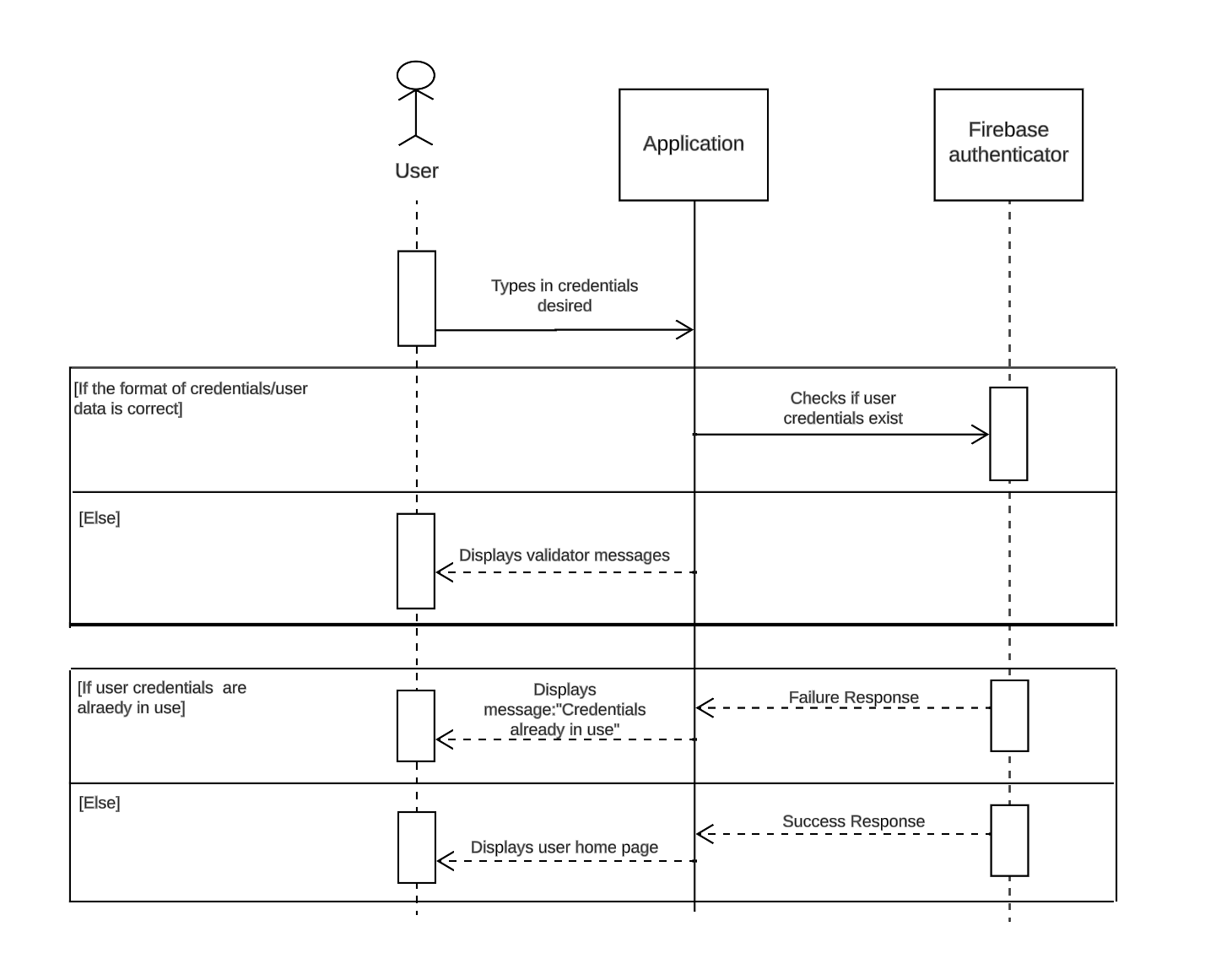


**2. Sequence Diagrams**

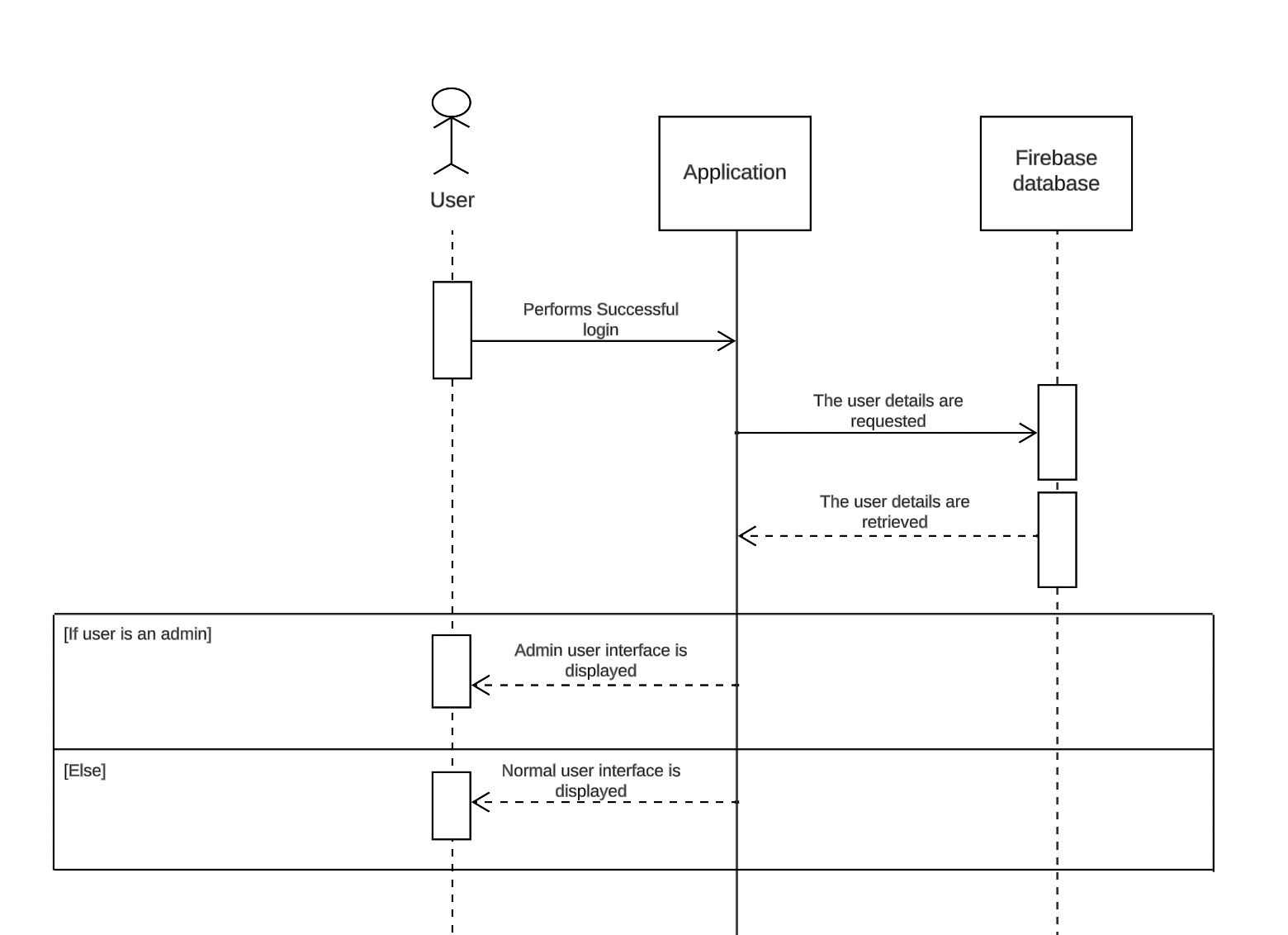
1. Authenticating and Logging in users:



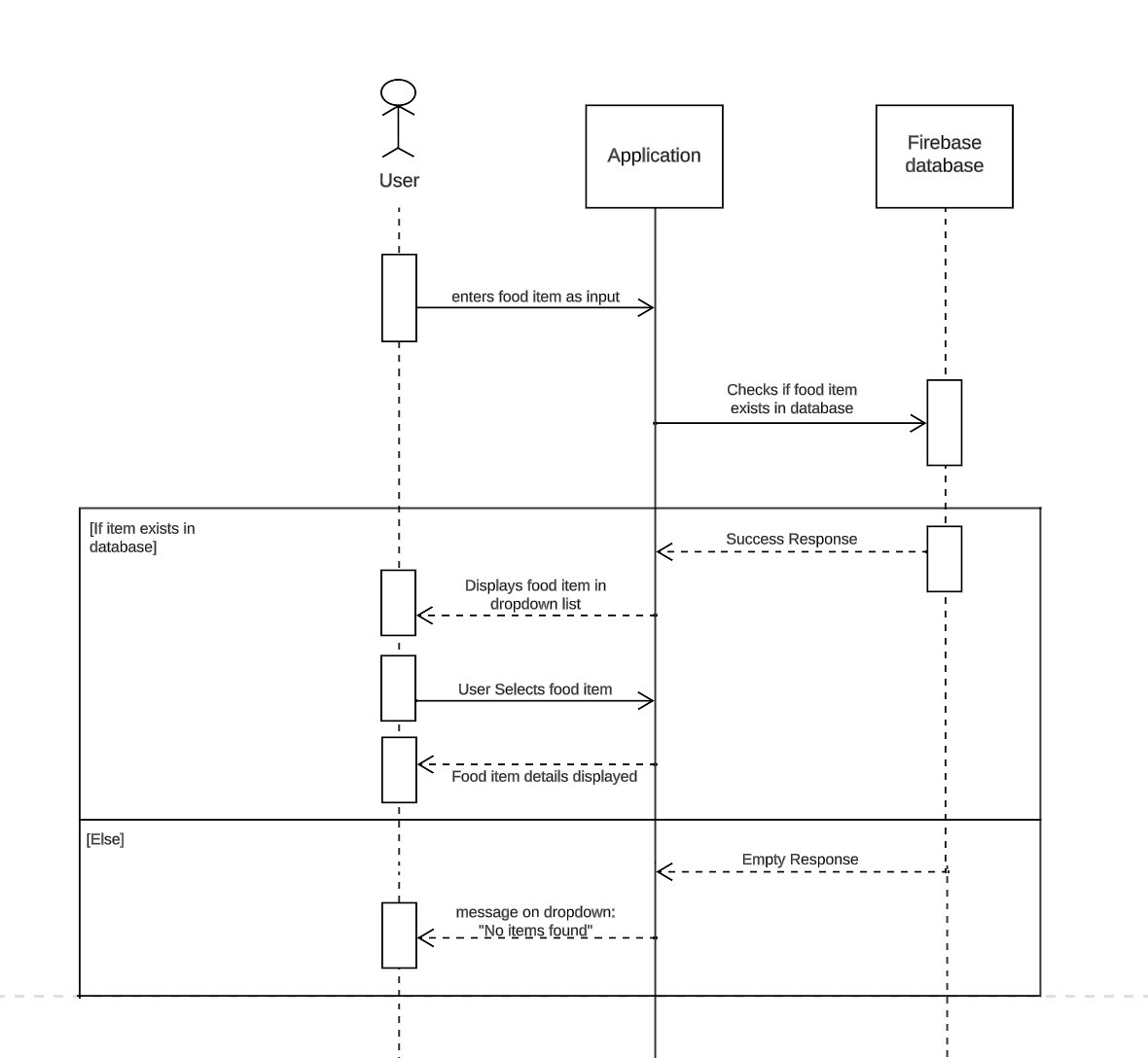
2. Registering a User:



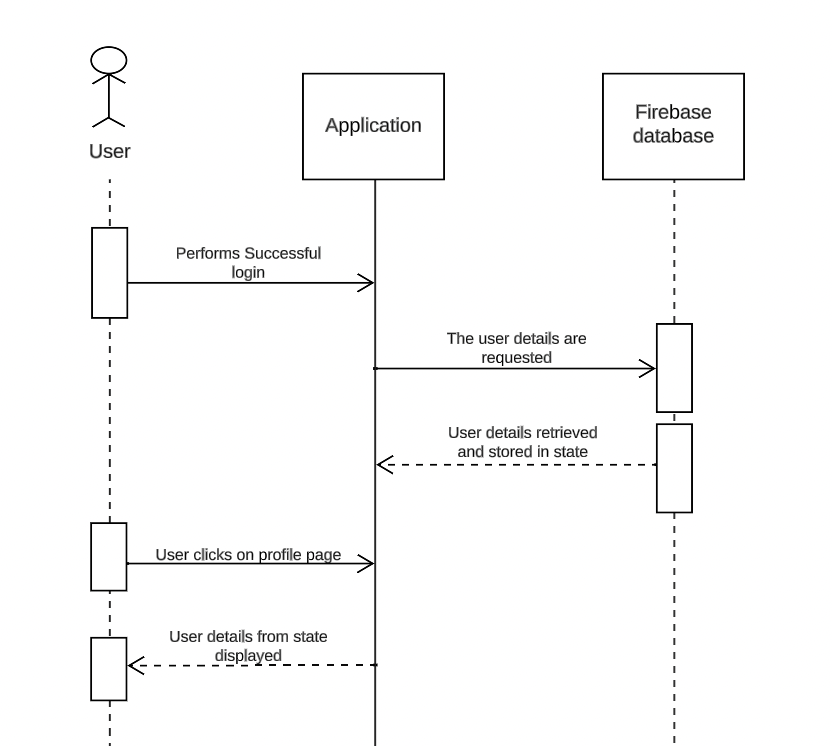
3. Changing user interface based on user type:



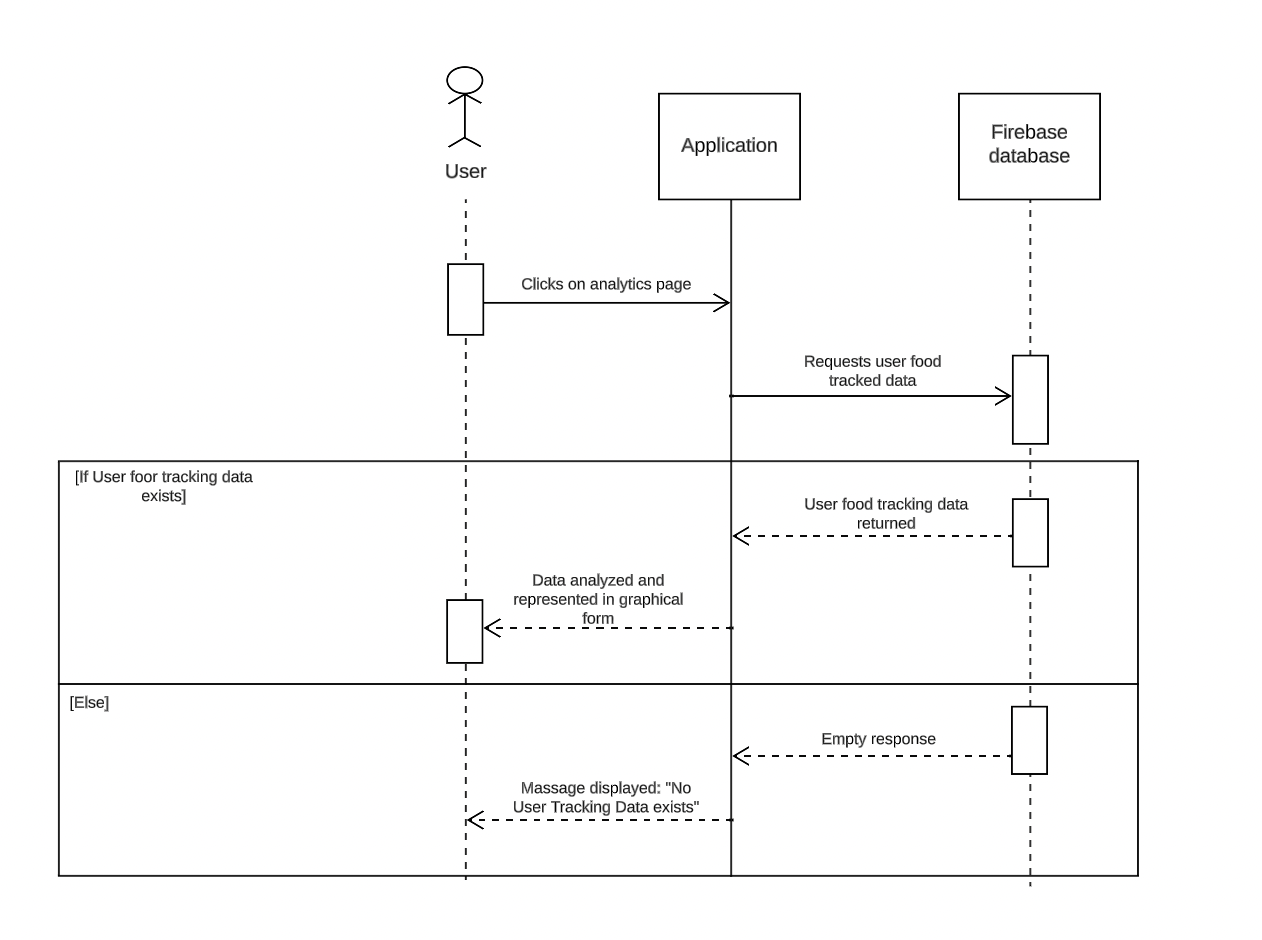
4. Attaining food nutritional values and calorie count:



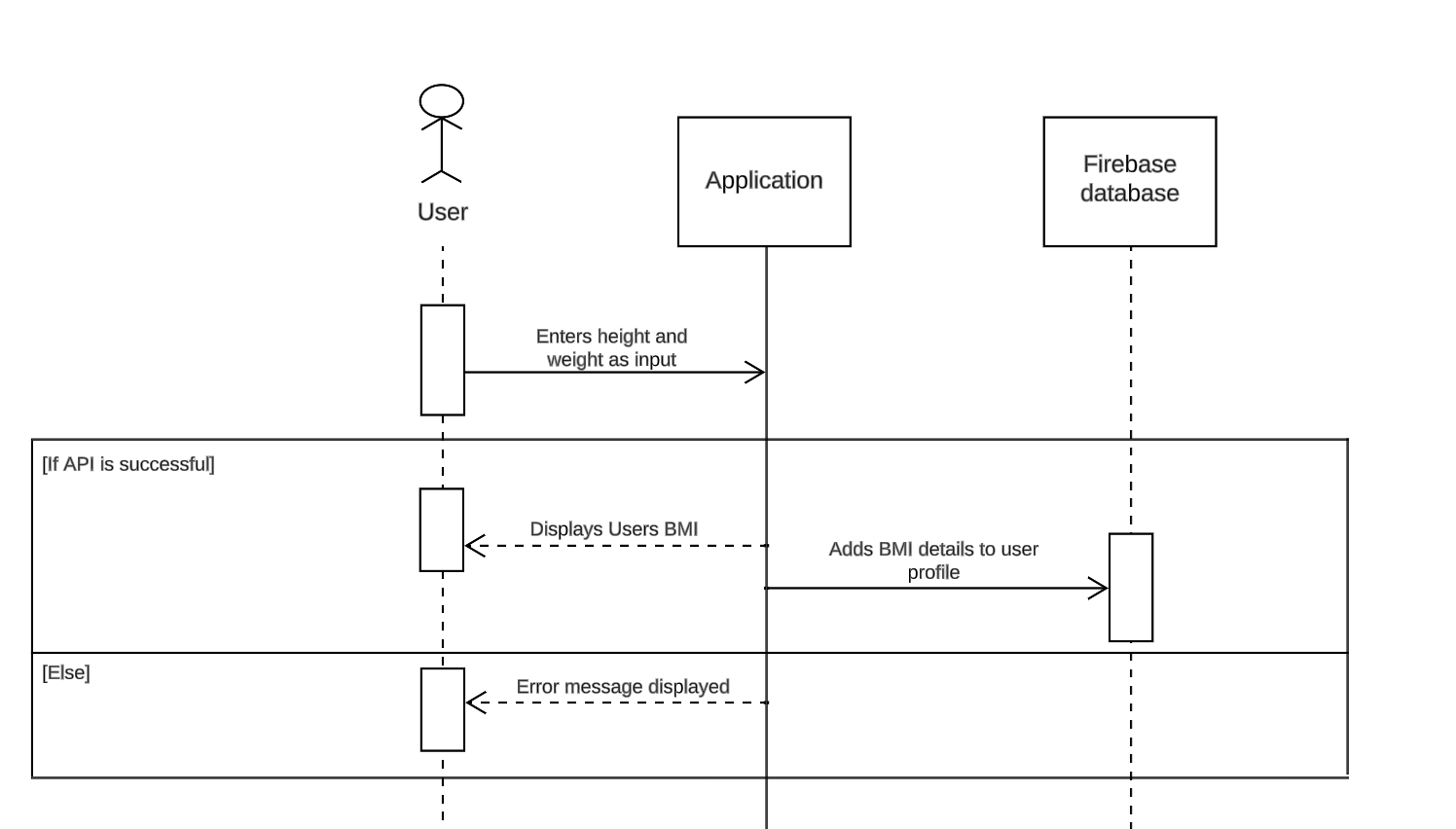
5. View user profile:



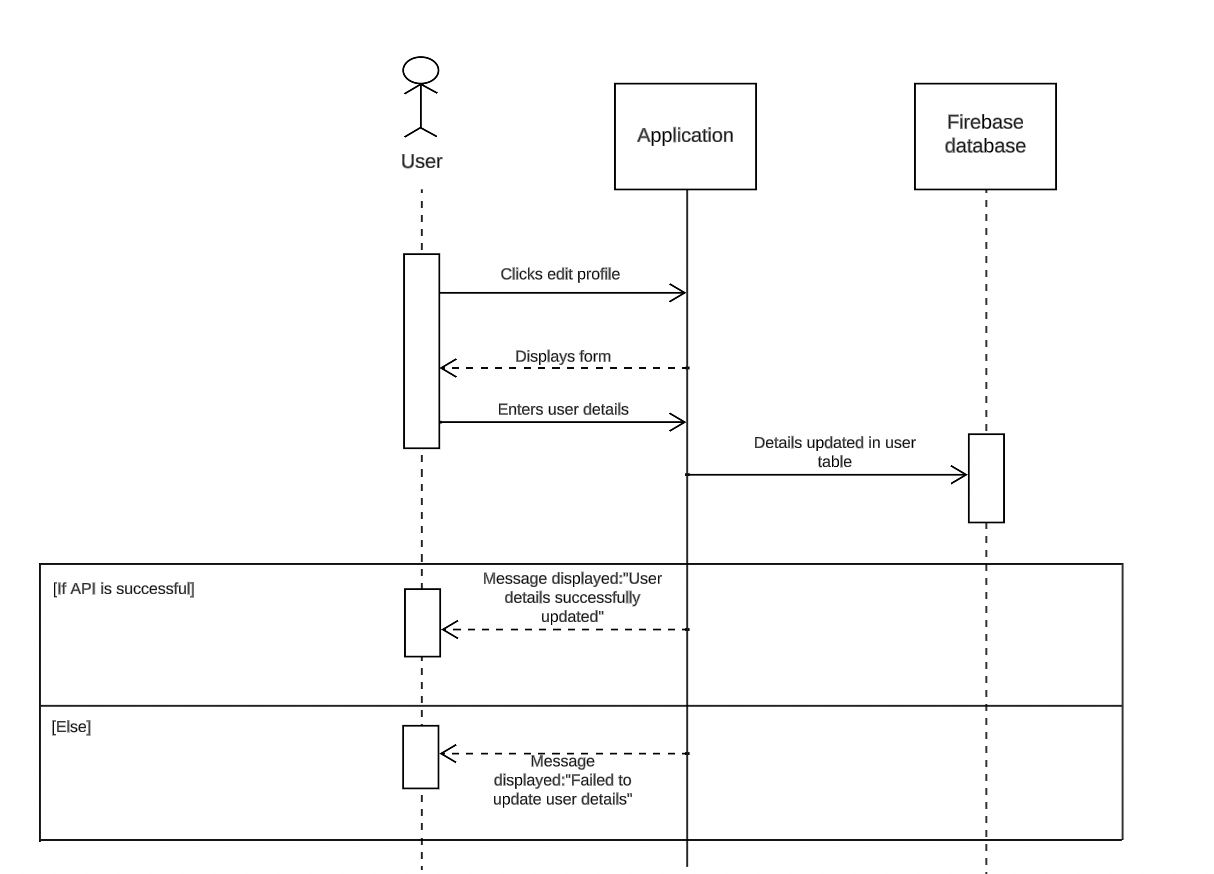
6. Graphical representation of calorie-goal analytics:



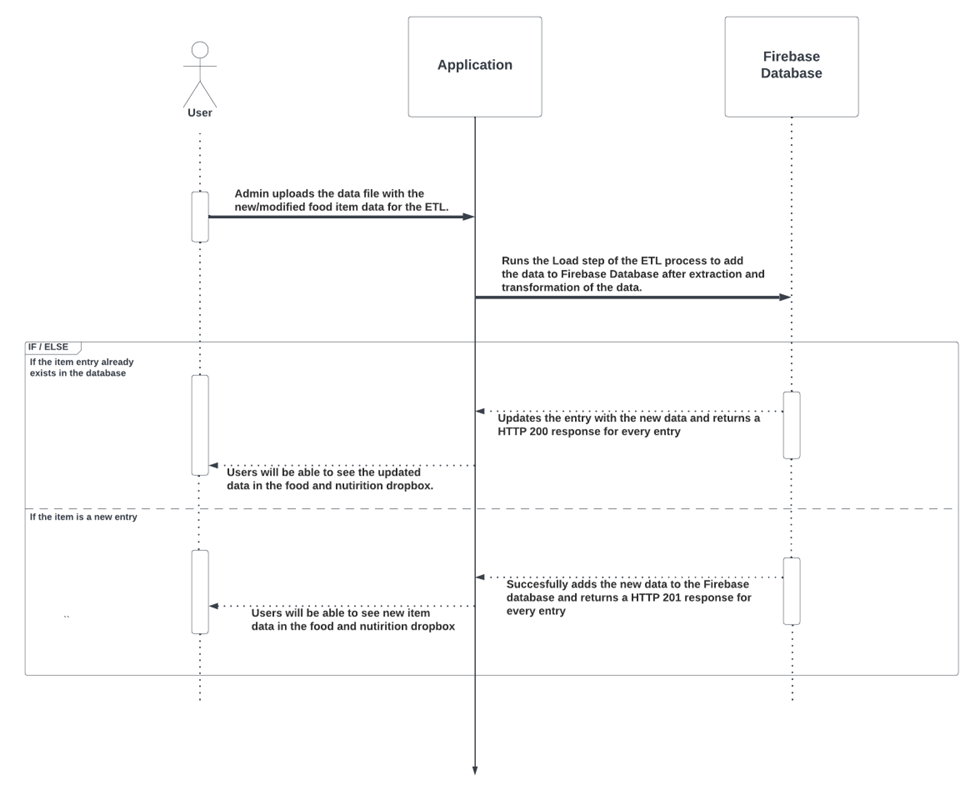
7. Calculating Body Mass Index based on user input data:



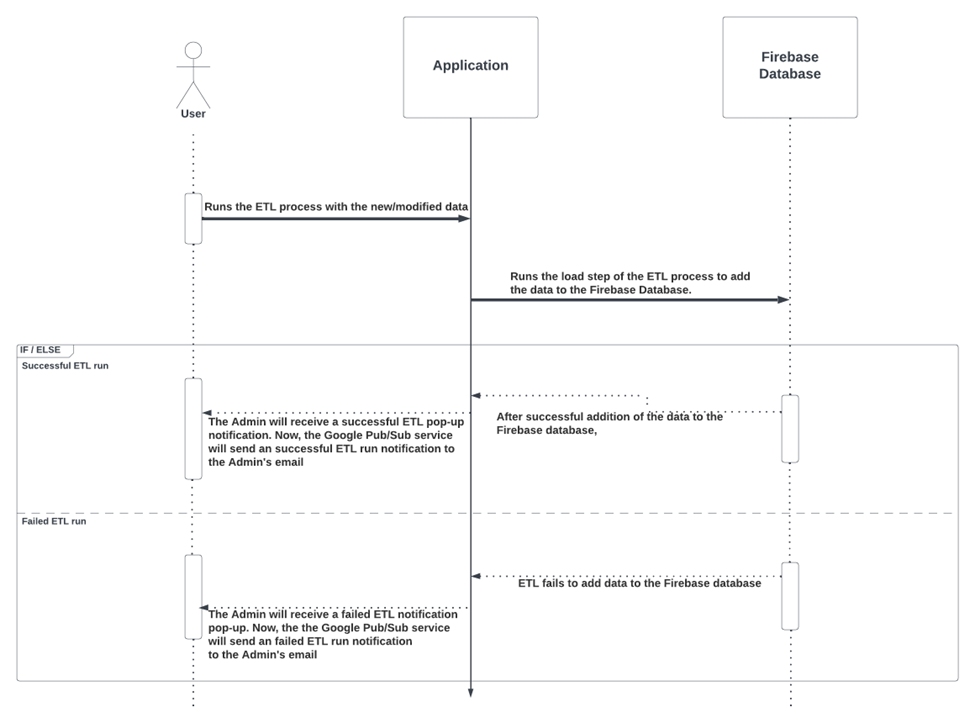
8. Update user information:



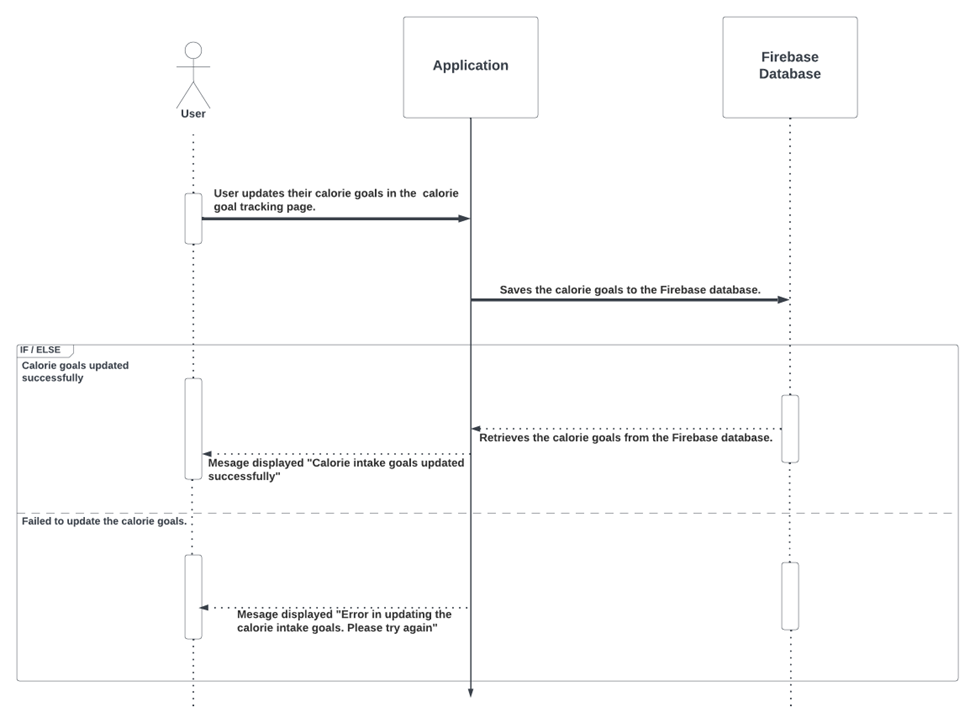
9. ETL of food data:



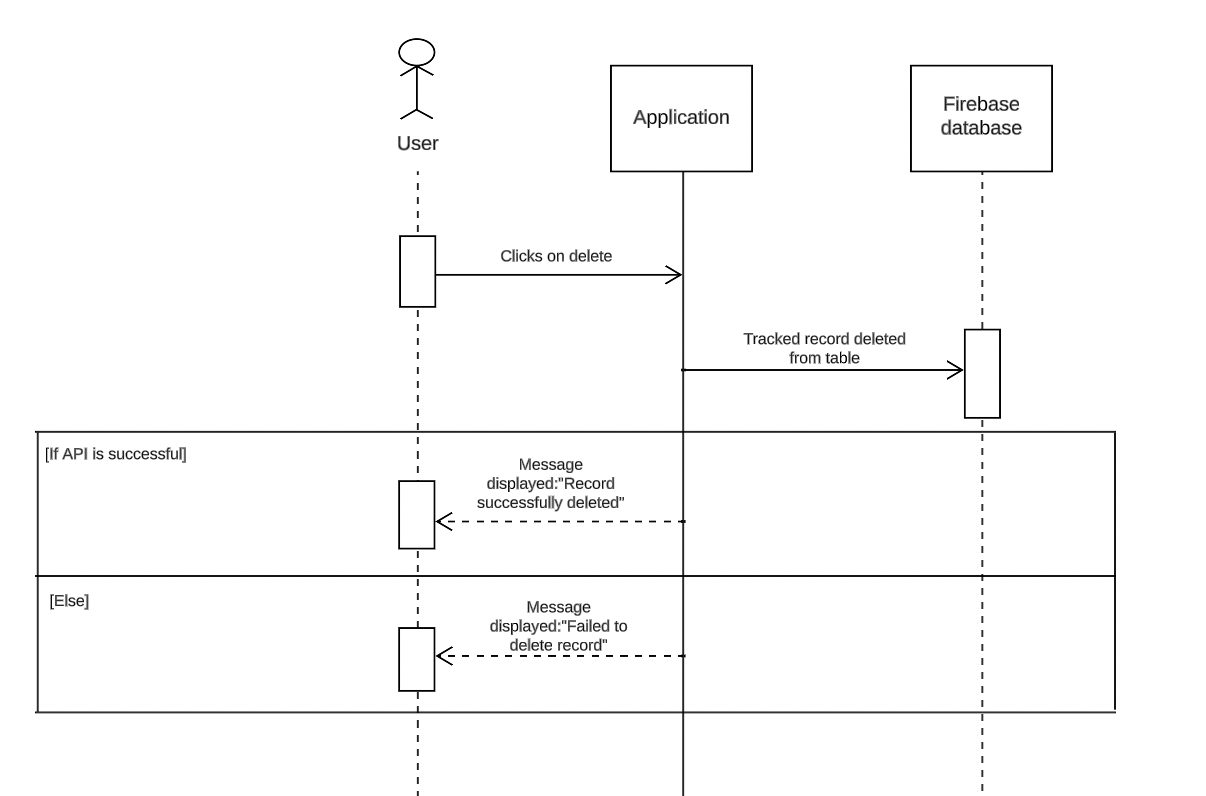
10. Notification pipeline:



11. User goal tracking:



12. Delete tracked data:



**3. System architecture diagram showing the front-end and back-end interactions**

A diagram of a firefighter system

Description automatically generated