MIDDLE EAST TECHNICAL UNIVERSITY

NORTHERN CYPRUS CAMPUS

CNG 495

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TERM PROJECT PROPOSAL

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1. Introduction

1.1 Project Purpose

Our goal is to develop a dynamic application designed for seamless photo sharing. In our application, users will initiate the connection by sending friend requests to their intended recipients, ensuring a secure and private photo-sharing experience. Once these friendship invitations are accepted, users will gain the ability to exchange photos effortlessly. Utilizing the application's camera functionality, users can instantly capture and share snapshots with their friends directly within the app's interface. To enhance the element of surprise and privacy, received photos can be viewed only once. We've implemented a sophisticated cloud database system to store photos in base64 format until they are accessed, ensuring that the memories captured are both conveniently accessible and securely preserved.

1.2 Cloud Delivery Model

We are planning to use Software as a Service (SaaS) for our Snapchat clone project, and the chosen provider will be Google Cloud. We've selected SaaS because it minimizes our involvement with infrastructure management, allowing us to concentrate exclusively on application development. This choice aligns with our project's specific focus on sending and receiving snaps, without the need for location services or chats.

1.3 Cloud Provider

We are planning to use Google Cloud as a provider.

1.4 Project Contribution

We are planning for everyone to contribute an equal amount to the different parts of the project, so everyone will get an equal amount of experience from the different parts of the project and improve themselves.

1.5 Project Development Environment

We are planning to develop the front-end side of the project with Flutter framework which is based on Dart programming language. We are going to deploy our application on both iOS and Android. We are planning to develop the back-end side of the project with Spring boot framework which is based on Java programming language.

2. Sequence Diagrams

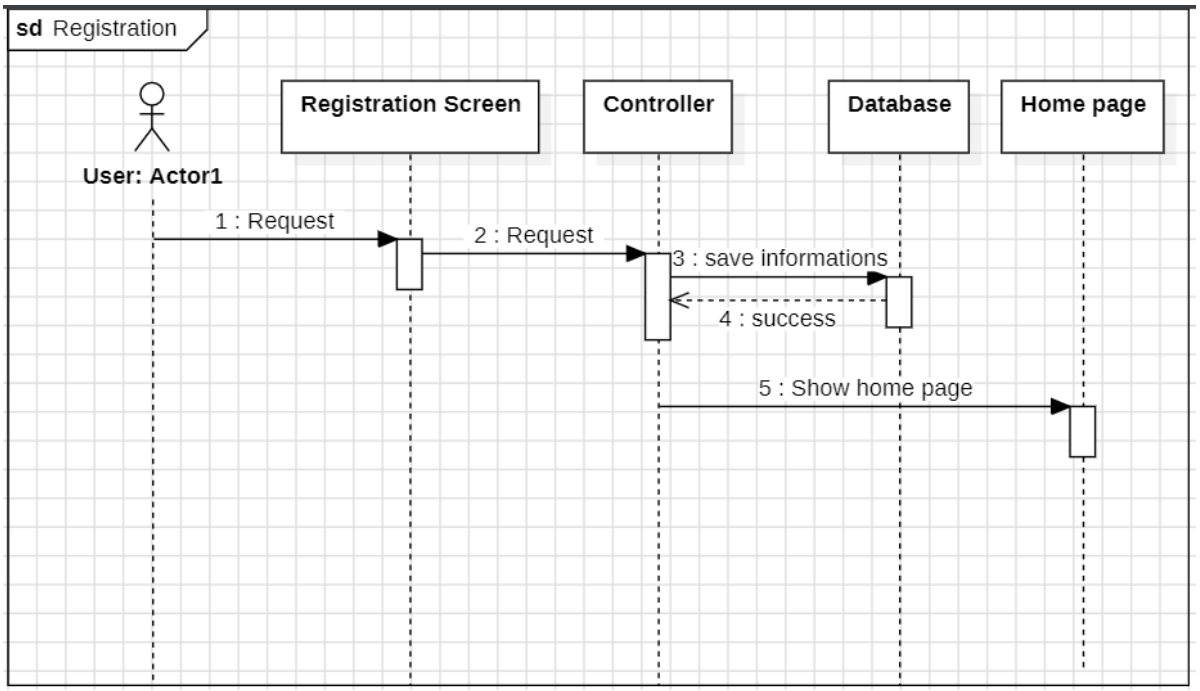

Figure 1 Sequence Diagram for Registration Process

Figure 1 shows that sequence diagram for registration process of our project.

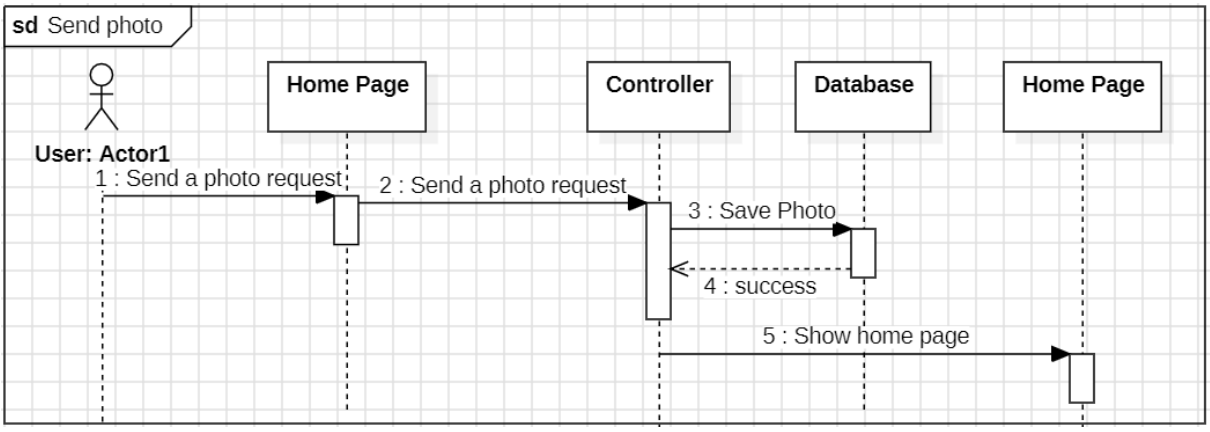

Figure 2 Sequence Diagram for Send Photo Process

Figure 2 shows that sequence diagram for sending photo process of our project.

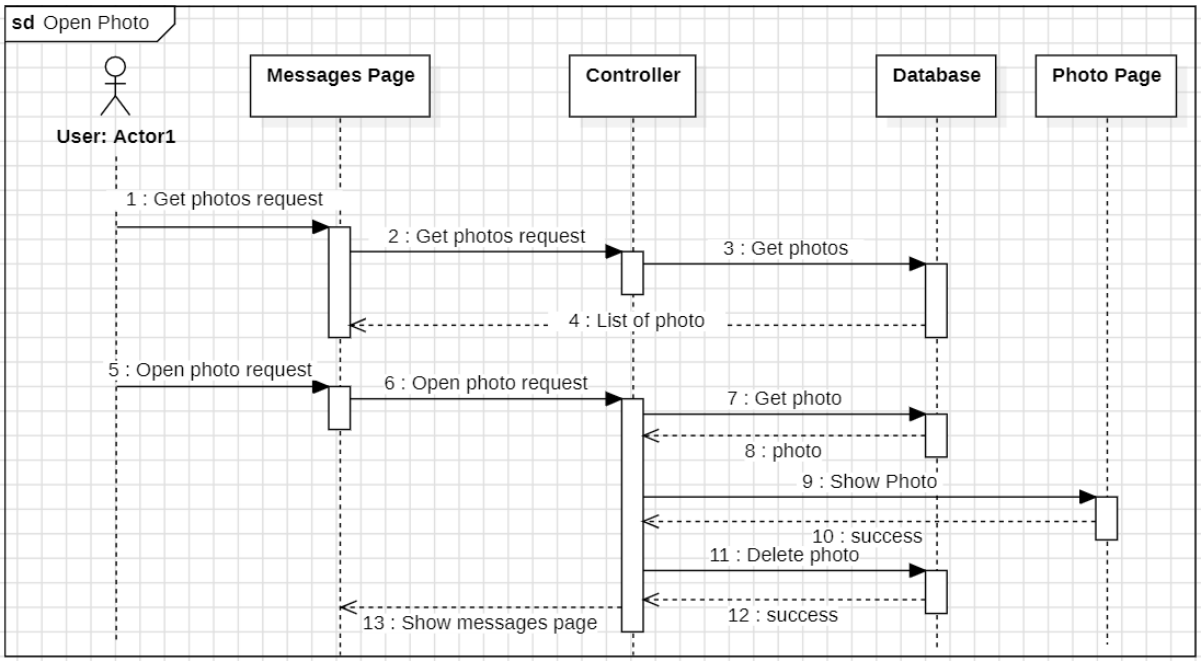

Figure 3 Sequence Diagram for Open Photo Process

Figure 3 shows that sequence diagram for opening photo process of our project.

3. Data Flow Diagram

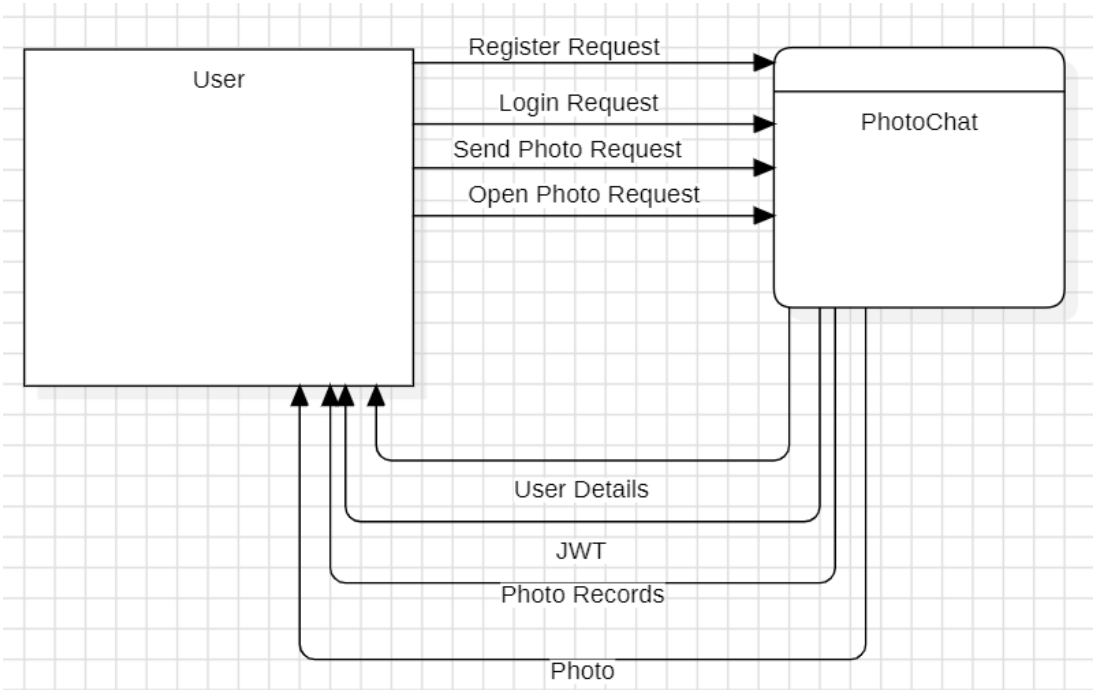

Figure 4 Data flow diagram of PhotoChat

Figure 4 shows that context level data flow diagram of our project.

3. References

N/A