

SMART SECURITY

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DESCRIPTION

The Smart Security app turns a normal Google Home into an internet-connected security alarm system.

When the smart home device is activated, the alarm warns the intruders that they are in a protected area and sends a text notification to the primary user.

The alarm is logged for the user to view through the web application.



ABSTRACT

OBJECTIVE:

- Cost efficient
- Multifunctional
- Simple installation
- Low-maintenance

DEMOGRAPHIC:

- Frequent movers on a budget
- College students
- Recent graduates

IMPACT

ISSUE

There are already many existing smart security alarm systems such as Nest and ADT. However, they are very expensive and not easily transferable.

SOLUTION

Smart Security is an affordable alarm system that takes a Google Home, which many people have, and turns it into cost efficient, multifunctional, and simple security alarm system with a simple installation process.

FEATURES

GOOGLE HOME

- Arm and disarm alarm with passcode
- Warn intruder when alarm is tripped
- Notify user via text when alarm is tripped

WEB APPLICATION

- Login and logout
- Add phone number to contact
- View tripped alarms
- Add and remove entrants
- Create user profiles

REQUIREMENTS

WIFI

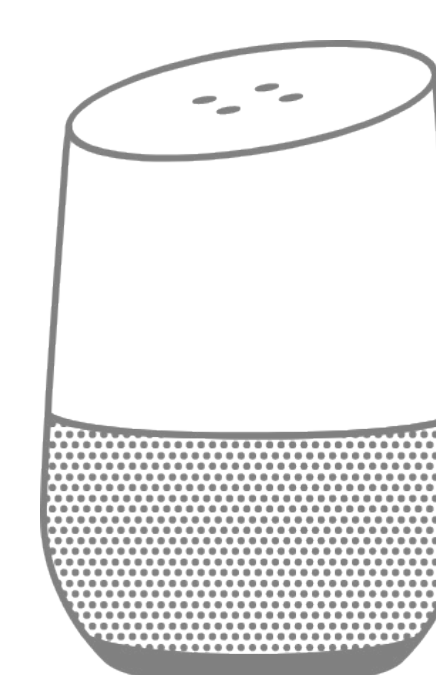
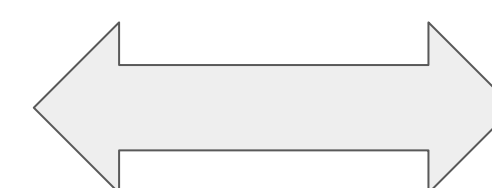
Google Home will need access to the Internet

GOOGLE HOME

To be used as the alarm system

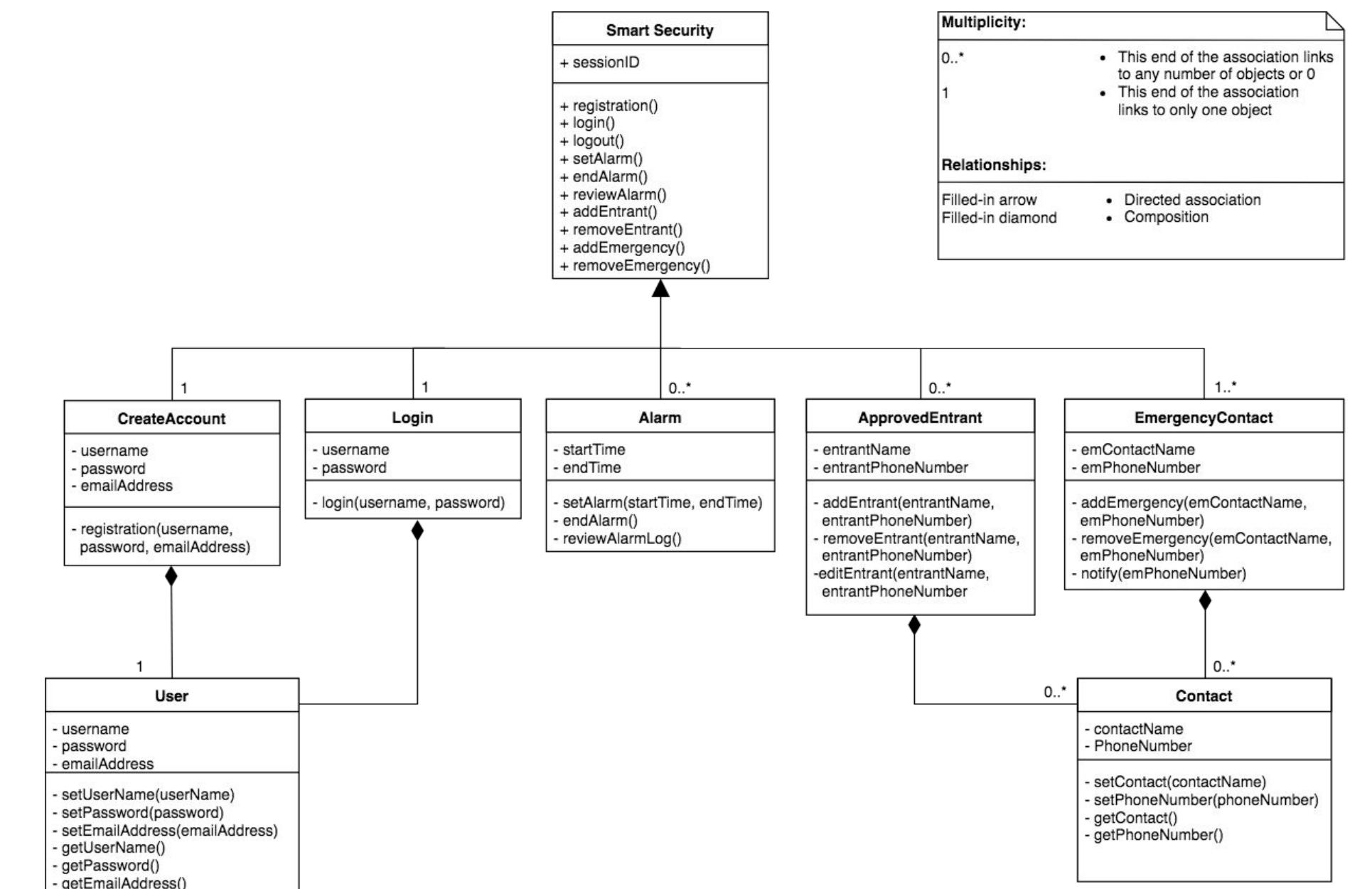
MOBILE DEVICE / DESKTOP

To set up phone number to receive triggered alarm texts, view alarm logs, and add other entrants

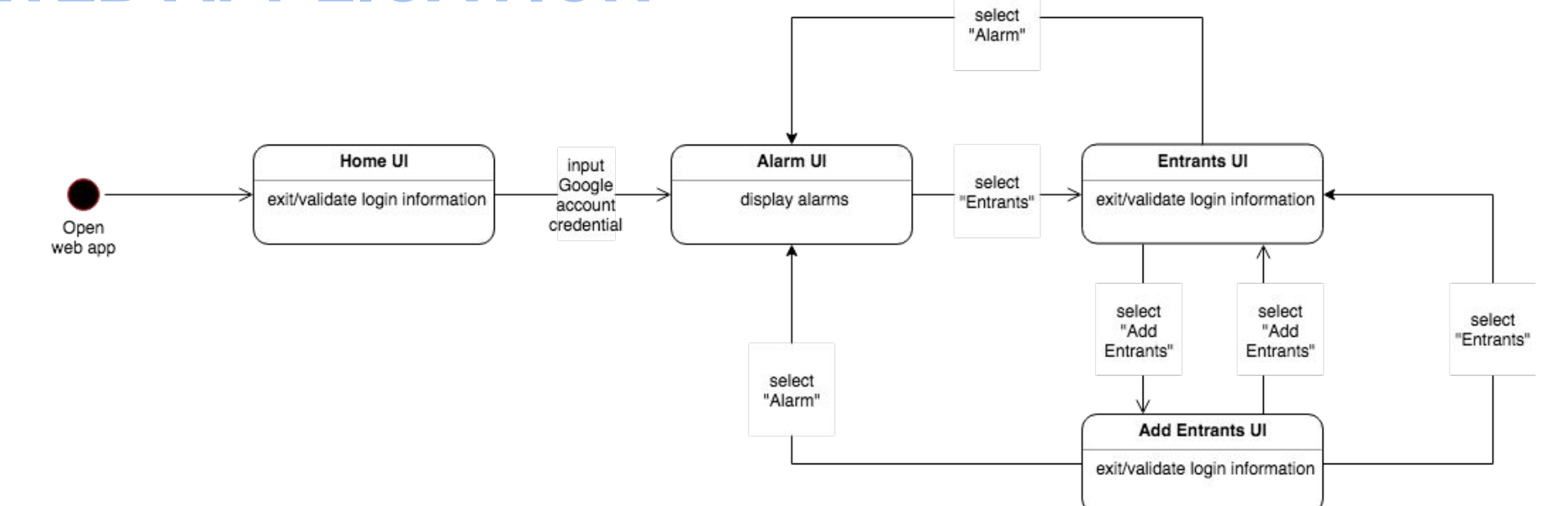


ARCHITECTURE

GOOGLE HOME



WEB APPLICATION



IMPLEMENTATION

USER



Speaks commands

GOOGLE ASSISTANT



Parses spoken language into text
Outputs speech to user

DIALOGFLOW



Maps text to intents
Maps intents to functions

FIREBASE



Host functions and database