Whereabouts Clock

Internet of Things Family Location Clock

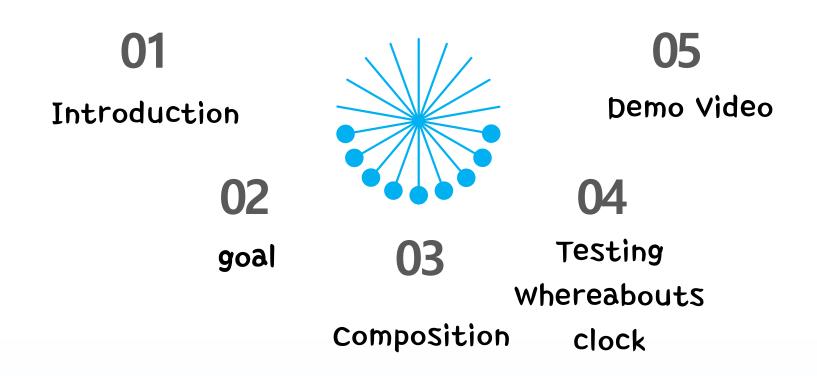
Whereabouts Clock Team



Software Developer Developer Manager User Customer

Juhyeok Bae Byeonggon Lee Sowon Park Jaehyun Byeon

Contents



1. Introduction



Harry Potter



Real-Life Weasley Clock

2. goal

whereabouts clock??



Senior



Family



Children

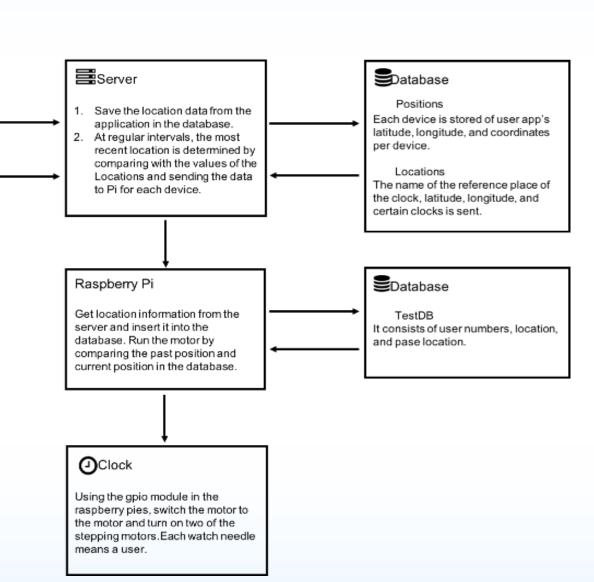
3. Composition - 1

App 1

- User downloads the 'whereabouts_SE project'.
- User type the server address '52.78.114.210'.
- User switch on the service status.

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3. Composition - Application



- Our Whereabouts clocks uses the Traccar Open Source to obtain location information.
- 2. Put the Amazon EC2 Server Address in the Whereabouts SE Project App.
- 3. Set the Frequency that request to the Amazon EC2 Server.
- 4. Select location provider between GPS mode and Network mode.

3. Composition — server





Amazon EC2

- 1. The server stores the location information that the application sends to the Positions DB.
- 2. The Server sends the real-time location to the Raspberry Pi by comparing the location of the latest location to the Data Set.

3. Composition — Raspberry pi 3



Raspberry pi 3

- Get location information from the server and insert it into the MYSQL DB.
- 2. Run the motor by comparing the past location and current position in the MYSQL DB.

3. Composition — clock



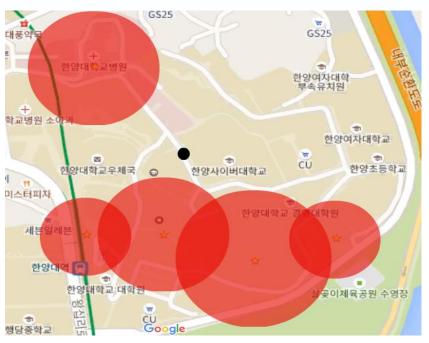
Clock Front

Clock Back

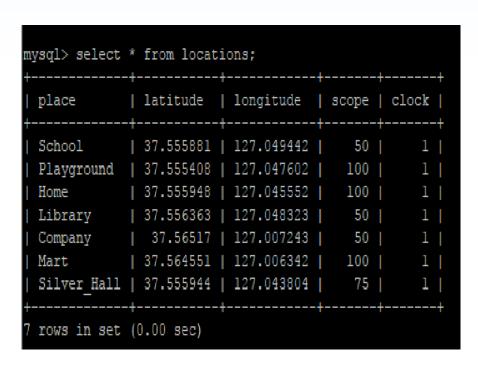
- 1. The gears of the stepping motor and the gears of the clock turn the our whereabouts clock.
- 2. Hands of a clock refers to a family member and the clock shows the location instead of the time.

4. Testing Whereabouts Clock

5. Demo Video



Location in Map



Location in Database



Q & A









