

# Watch Application

## Document history

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# Introduction

This application is an exercise as part of the recruitment process for GE Healthcare - Front End engineer.

It consists of a Watch application.

It's based on TypeScript as part of the requirements.

The application is based leveraging a Model-View-Controller architecture.

It's divided in two parts, A and B.

## Part A

### Requirements

- Displays the current time
- A button "mode" allows to change time
- When pressing the "mode" button, the time is editable: the "increase" button adds one hour
- When pressing the "mode" button again, the "increase" button adds one minute
- When pressing the "mode" button a third time, the time is no longer editable: the "increase" button does nothing
- The button "light" turns on the screen to be readable even at night

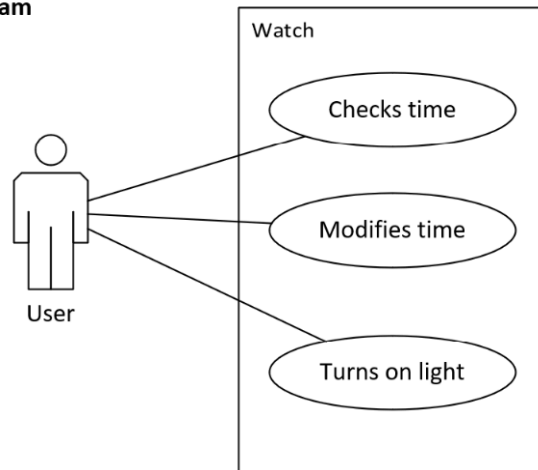
### SW Architecture

#### Assumptions

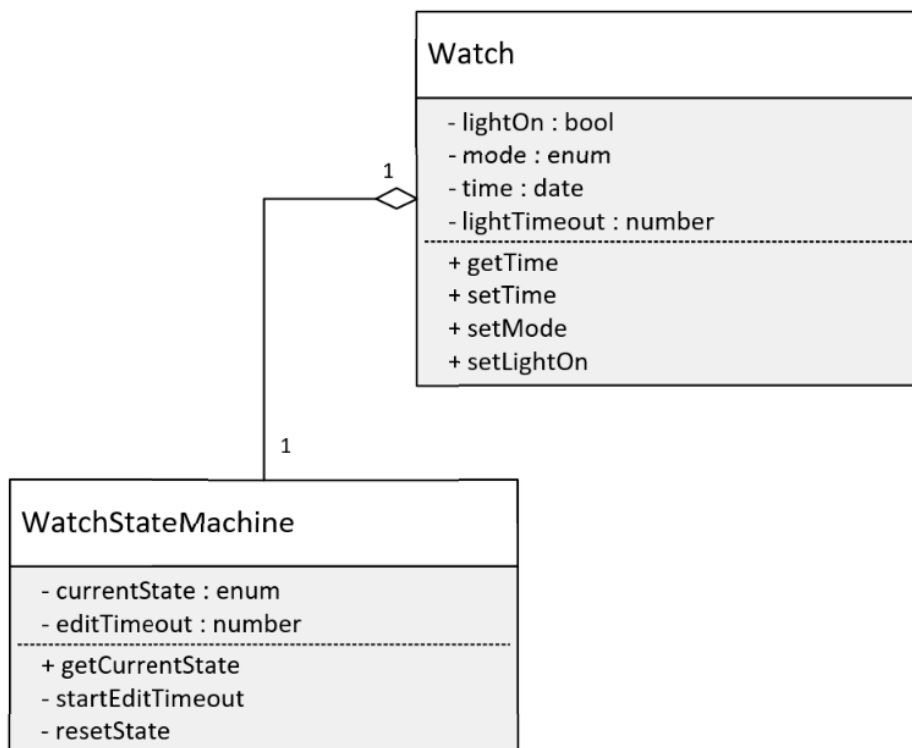
- The light turns out after a timeout
- If not interacting with the mode button, the mode goes back to view time after a timeout.

## Use case diagram

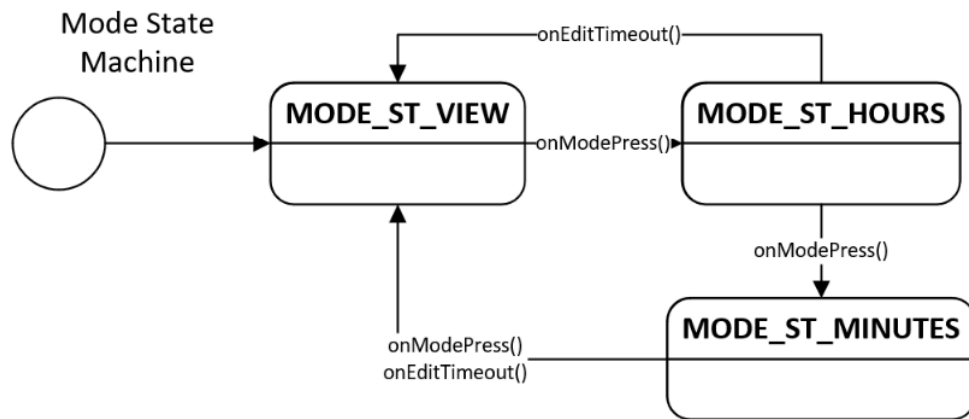
Use case diagram



## Class diagram



## State machine



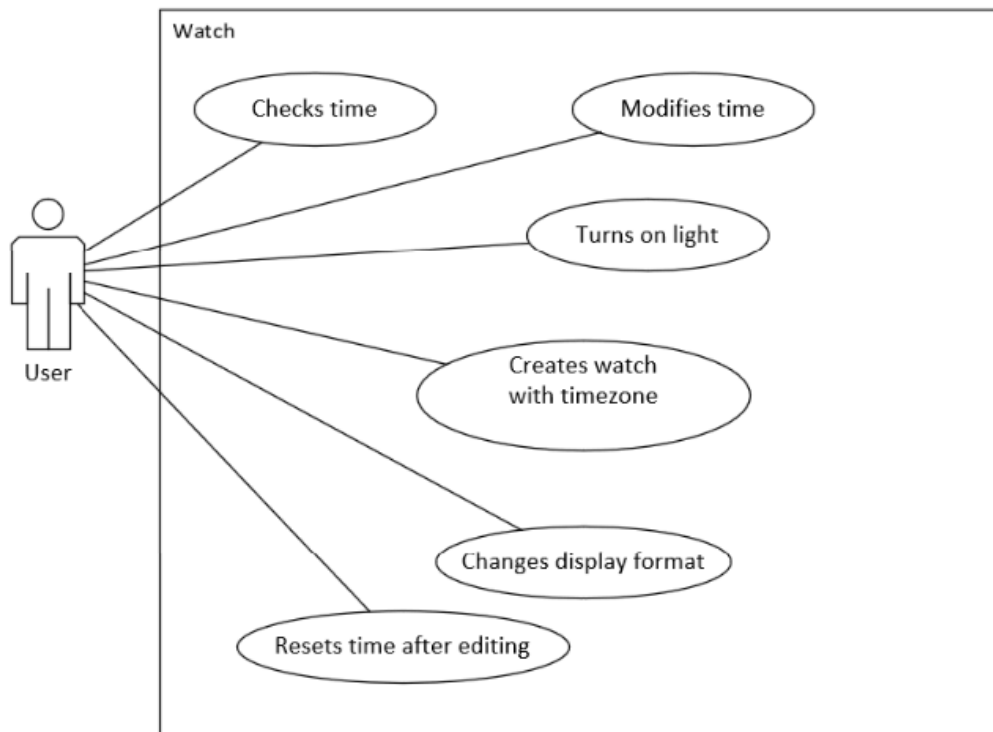
## Part B

### Requirements

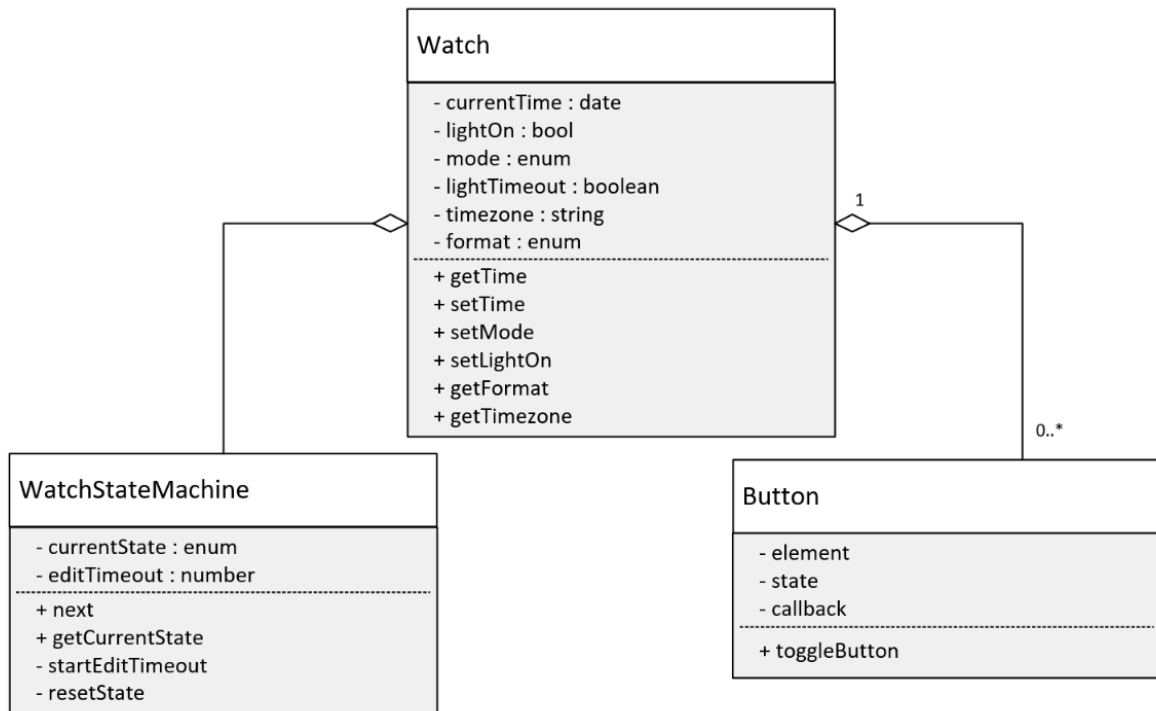
- Display multiple clocks in the page
- Each clock shall display a different time zone (ex: GMT+1, GMT+2...)
- Add a reset button to reinitialize a clock after using the edit button
- Add a button that dynamically creates and displays a new clock (extra bonus if you can choose the time zone before creating it)
- Add a button to change the display between 24h and AM/PM format
- Extend the class diagram

### SW Architecture

#### Assumptions



## Class Diagram



## Known limitations

## Improvement ideas

- Animations when adding/removing a watch.
- Adding bulk edition for removing watches.
- Layout of watches by timezone.