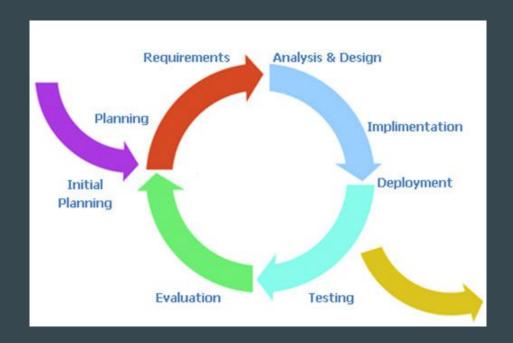
Team Malaga

•••

Eric Hofesmann, Marge Marshall, Bryce Charydczak

Design Plan

- Iterative development.
- Github Deployment.
- Illustrations:
 - System Sequence Diagrams
 - Object Sequence Diagrams
 - State Machine Models
- Test Driven Developments
- Final Implementation



End User Product/Goals

Product: Alarm Clock featuring radio transpondence and dual alarm capabilities.

Goal:

- Be able to wake the user at user-specified times
- Give user the freedom to navigate the radio
- Operational and user friendly
 GUI to display the project



Instruments of Use

- NetBeans IDE 8.2
- JUnit 2.0
- Draw.IO
- JavaFx SceneBuilder
- GitHub









JUnit

Proprietary Aspects

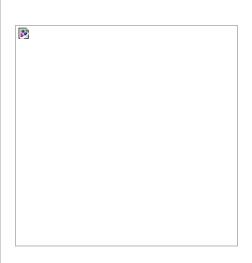
- Increment/Decrement buttons for all input to dissuade any user error.
 - o Increment By 10
- Color scheme
- Radio has seek functionality to find clear radio stations
- UITimingInterface and ControllerInterface
- This one goes up to 11

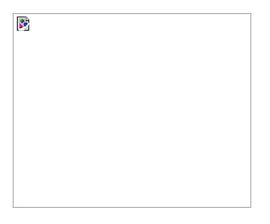
```
public interface UITimingInterface {
   public void updateMilitaryTime(int hours, int minutes);
   public void updateAMPMTime(int hours, int minutes, boolean isAM);
   public void soundAlarm(int alarmNum);
}
```



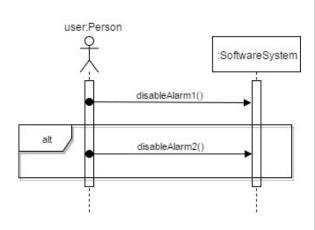
```
public interface ControllerInterface {
   public void soundAlarm(Alarm a);
   public void updateTime(Calendar cal);
}
```

System Sequence Diagrams



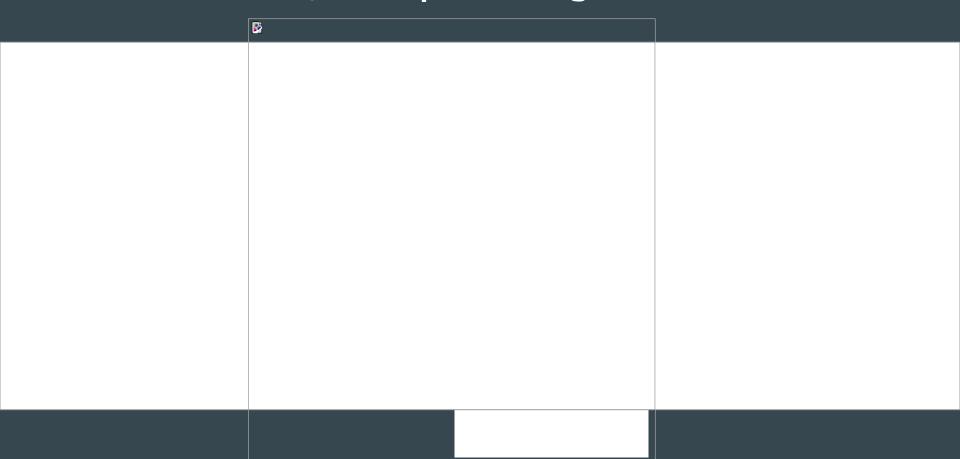


Original

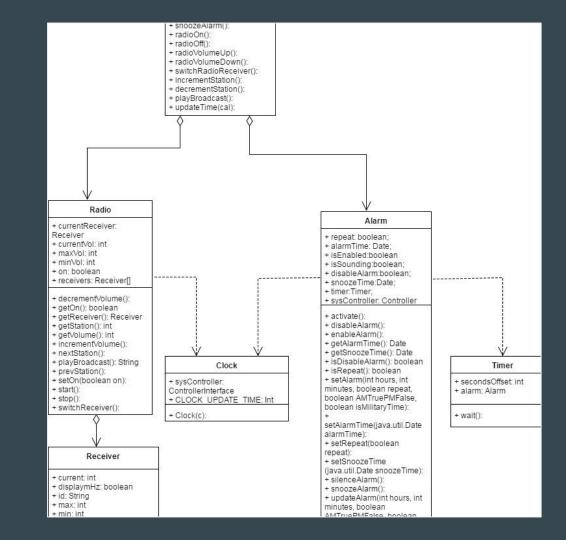


Final

Object Sequence Diagram



Class Diagram



Triumphs,

- Collaborative development and efficiency
- Punctuality
- Git

Pitfalls,

- No sound
- Java FXML
- Keeping up with document
- Test-Driven Development

Lessons Learned

- Test-Driven Development
- Not getting stuck on details
- GRASP
- Iterative development



