

# CodeMock

## Requirement Specification

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# Product Definition

- Background

- **Real-time teamwork** becomes increasingly popular in software engineering.
- **Design and coding** are supposed to be more closely connected and in accordance.
- **Communication efficiency** within a team greatly affects the process.
- **Integration** of design, development and project management.

# Product Definition

- Product Scope

*CodeMock v1.0*

Software products using Java SE

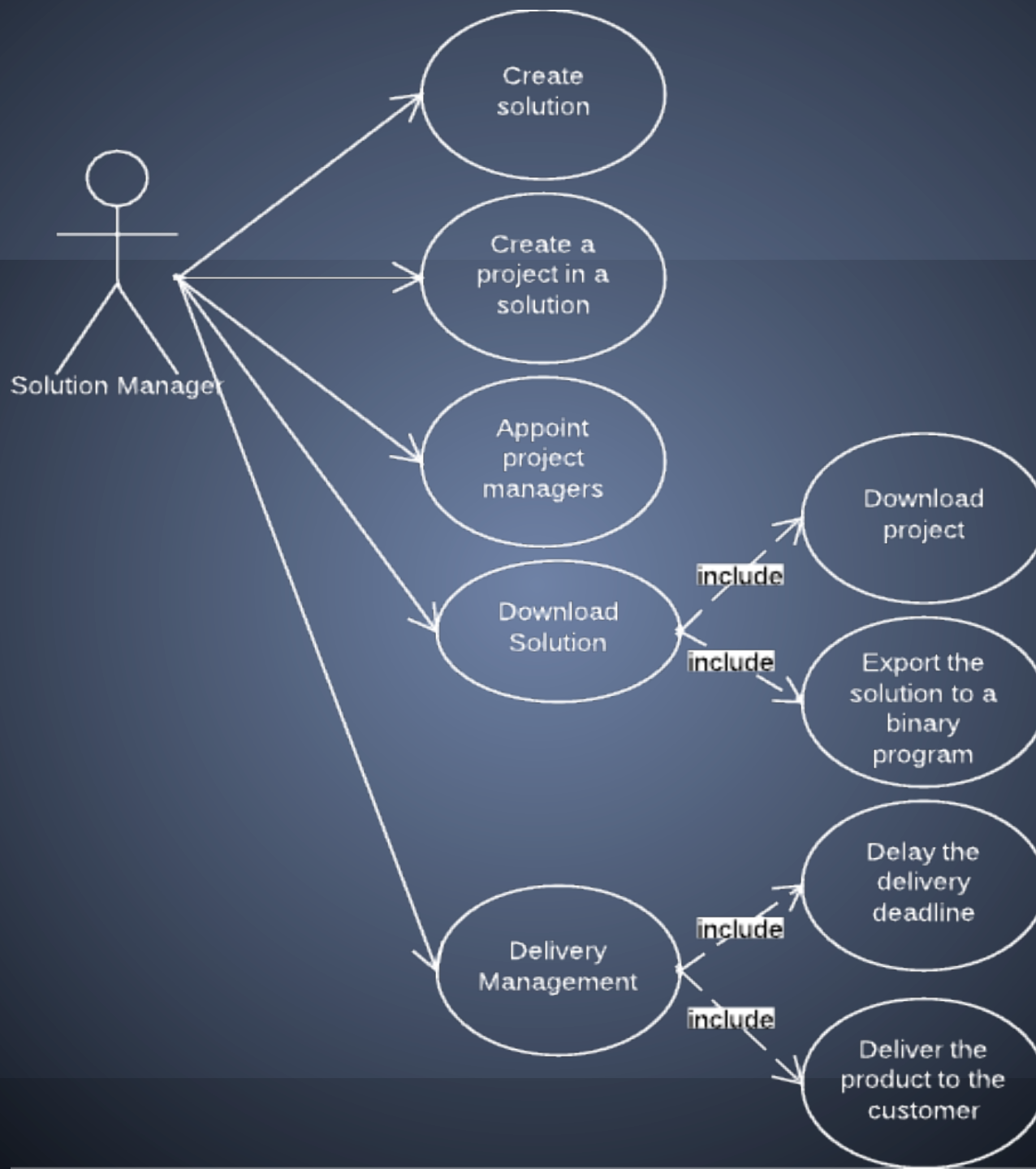
Chrome, Safari (support HTML5, CSS3)

*CodeMock future versions*

Software products using object oriented programming

# Product Definition

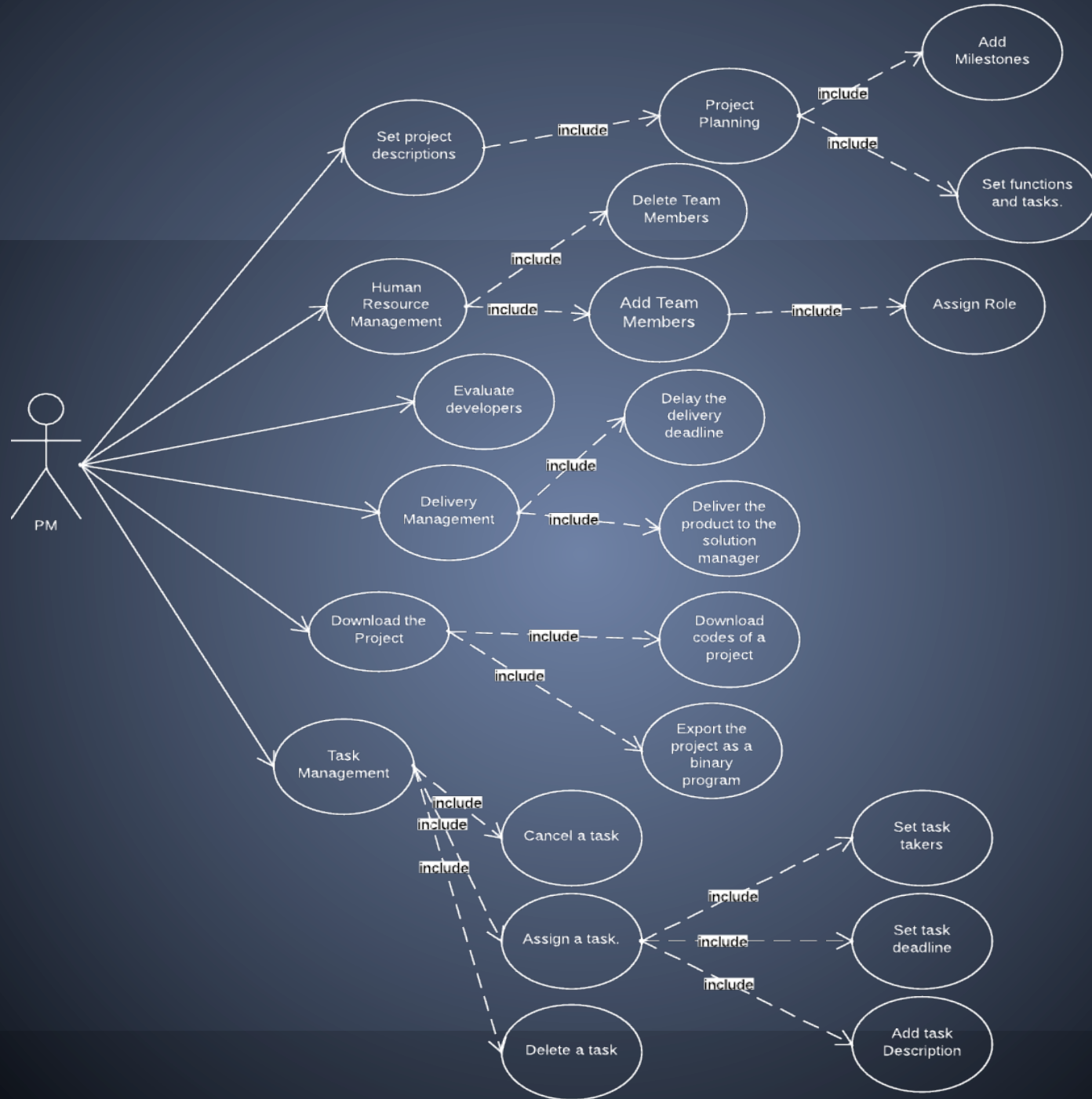
- User Roles
  - **Solution Manager**  
Create and manage a solution with one or more projects for the whole lifecycle
  - **Project Manager**  
Design, plan, and track the process of a project
  - **Developer**  
Object oriented design and programming



# Functional Requirements

- Solution Manager
  - Create/delete a solution
  - Create/delete a project in a solution
  - Appoint project managers
  - Delivery Management (by Email)
  - A solution manager can also take the role of a project manager or a developer

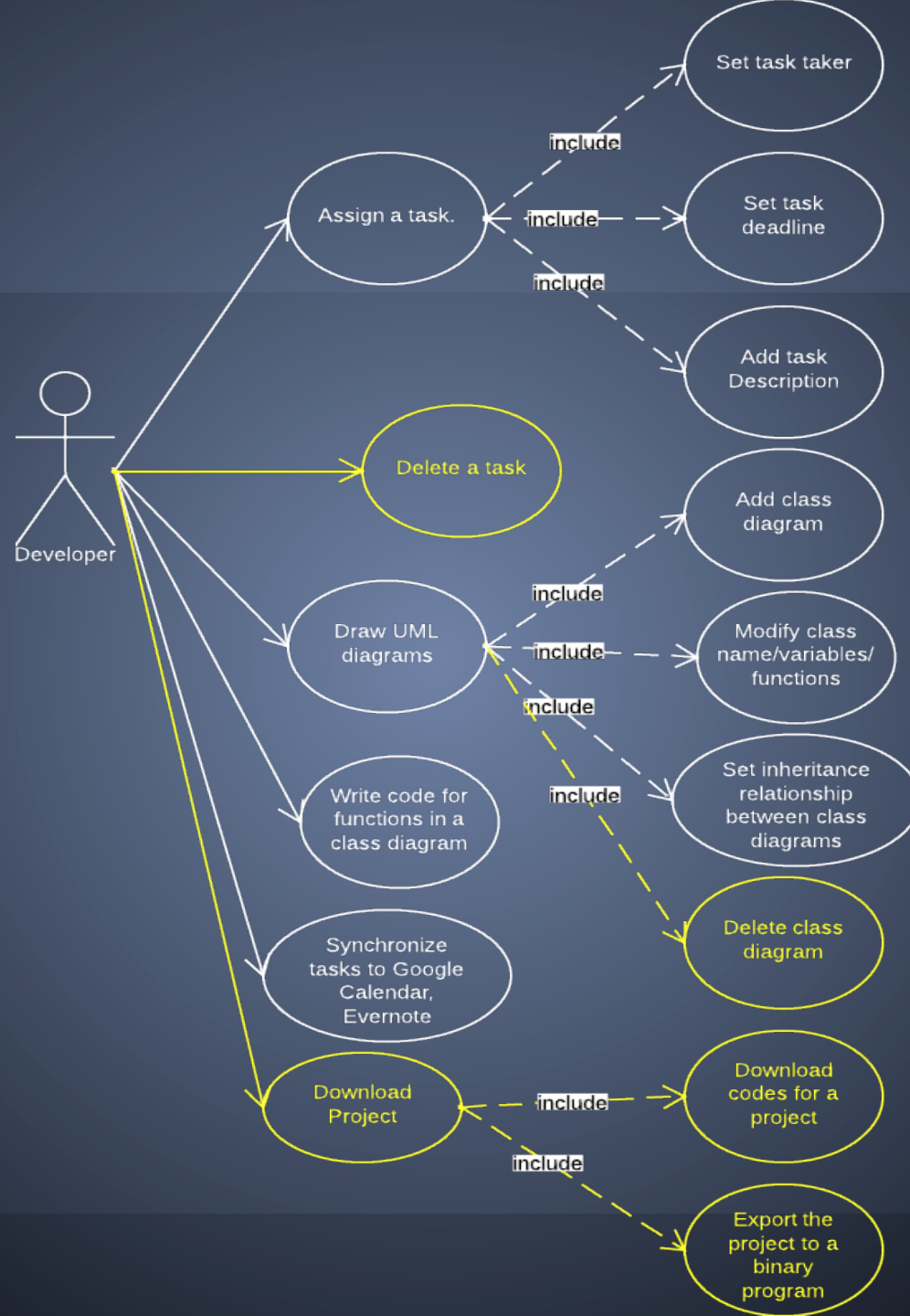




# Functional Requirements

- Project Manager
  - Add members to a project team
  - Appoint roles to members (manager, developer)
  - Notify the solution manager of delivery
  - Ask the solution manager for an overdue
  - A project manager can also take the role of a developer
  - Evaluate developers after each task





# Functional Requirements

- Developer
  - Project planning:
    - Write analysis report
    - Write architecture documents
    - Add functions to a requirement specification
    - Add non-functional requirements
    - Edit milestones

# Functional Requirements

- Developer
  - Task management
    - Create tasks (set deadlines, descriptions)
    - Assign/Reassign a task to a tasktaker (include oneself)
    - Add the developer's task to his google calendar/evernote
    - Delete tasks if permitted



## CodeMock

Mar 13

Jul 26

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## GeoDuel

Apr 12

Jul 29

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## Transportation Surveys

Apr 24

May 6

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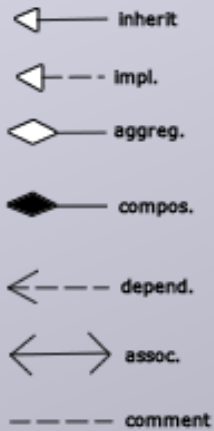
# Functional Requirements

- Developer
  - Modeling
    - Create/edit a UML diagram
    - Generate skeleton code from diagram
    - Create/edit/delete a UML diagram
  - Coding
    - Code on the web (with open-source tools)
    - Download solution/project if permitted
    - Export code as binary program

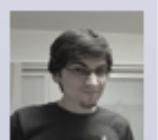
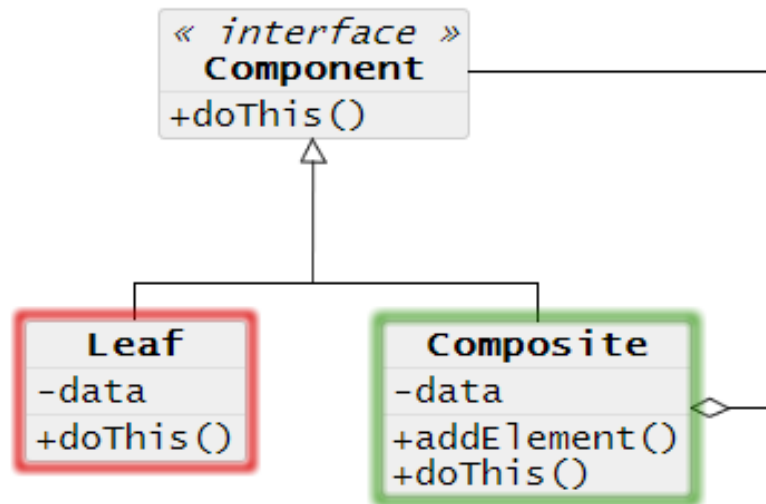
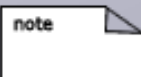
## Components



## Relations



## Other





```
1 ▾ public class Composite implements Component {  
2  
3 ▾     /* ... */  
4  
5 ▾     public void addElement() {  
6         // Your code goes here  
7     }  
8  
9 ▾     /* ... */  
10  
11 }  
12
```

# Functional Requirements

- System
  - Synchronize diagrams/codes
  - Save code automatically on the server
  - Notify incoming deadlines of a task/project
  - Evaluate developers' efficiency (overdue frequency, performance rating...)
  - Generate progress report

# Non-Functional Requirements

- Accessibility
- Real-time response
- Fault tolerance
- Security
- Stability
- Extensibility

**Thank you!**