

Technical Design Documentation

REACT NEWS PORTAL

Overview

Web based application running on the client side of the browser – React News Portal.

The application allows you to add news to three different news sources (newspapers) that placed on your home page of the news portal. The application API allows you to add more news sources.

News can be add in two ways: manual input and access to the news server.

The application allows you to create users of the news portal. Users have the choice of type: human and robot, which different methods of processing received news. The user type selects when the user is initialized and the user name is entered.

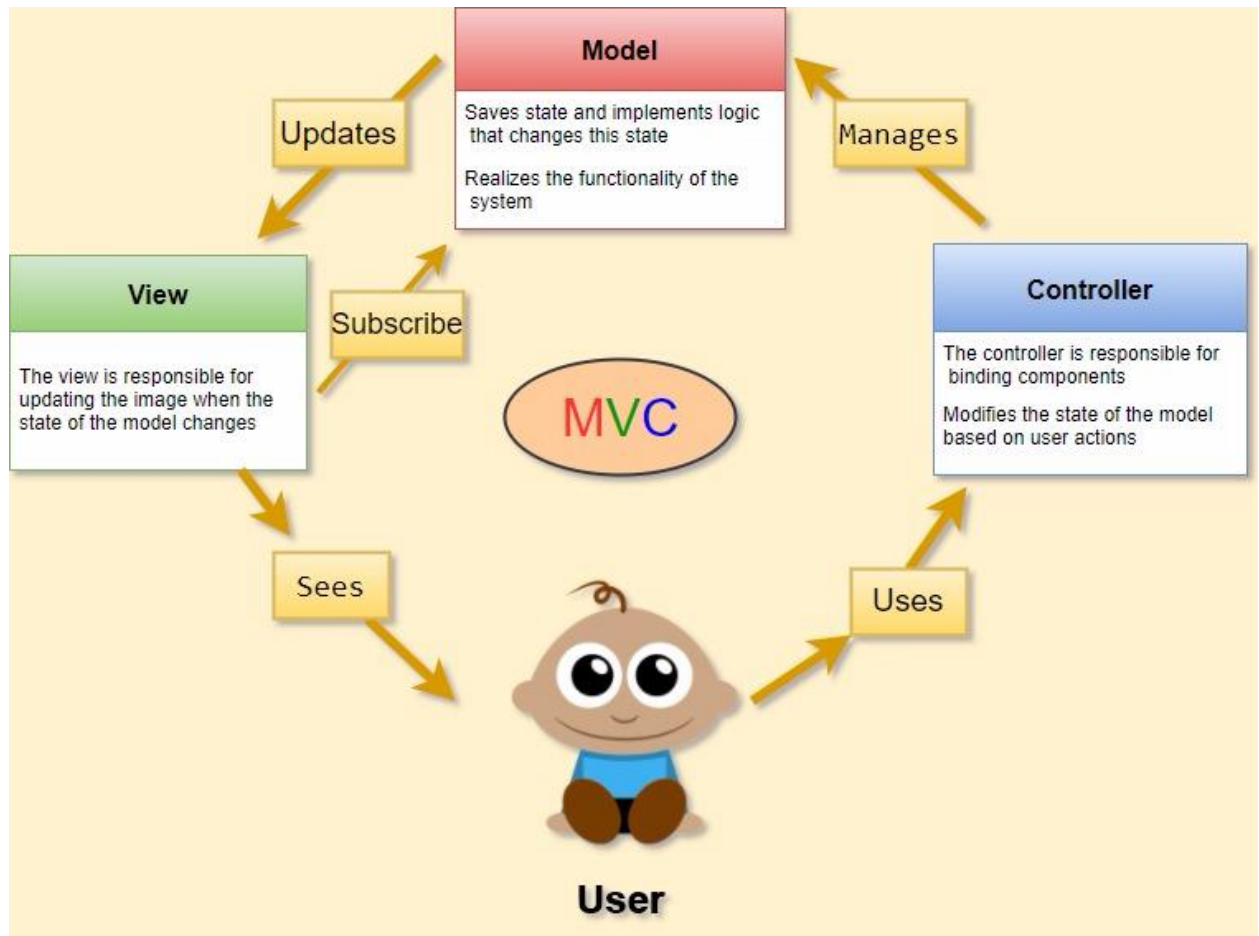
In the user's display window, the subscription buttons for news sources are displayed, when you press which you can subscribe to the source and click again - unsubscribe from a source.

Also the user's display window there is a news output field in which the received news is processed by the method and displayed. In the user's display window there is also a button that allows irrevocable remove user.



Architecture

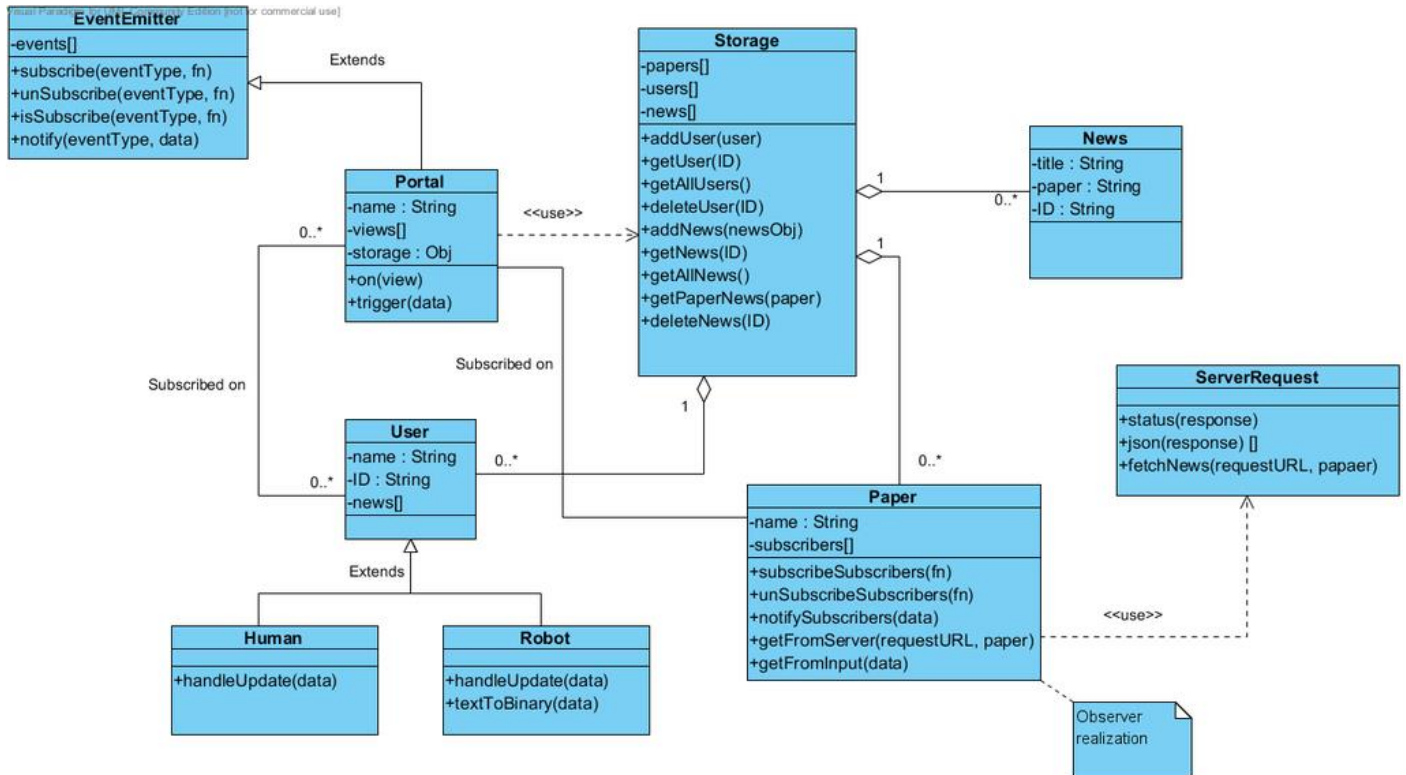
MVC (model-view-controller)





Model

Class diagram



Include next classes:

- EventEmitter
 - Properties: events
 - Methods: subscribe, unsubscribe, isSubscriber, unsubscribeFromAllPapers, notify
- Human
 - Properties: news
 - Methods: handleUpdate
- News
 - Properties: title, paper, ID
 - Methods: generateID
- Paper
 - Properties: name, portals
 - Methods: subscribePortal, unsubscribePortal, notifyPortals, getFromServer, getFromInput
- Portal
 - Properties: name, views, storage



- Methods: on, trigger
- Robot
- Properties: name, news
- Methods: handleUpdate, textToBinary
- Storage
- Properties: papers, users, news
- Methods: addUser, getUser, getAllUsers, deleteUser, addNews, getNews, getAllNews, getPaperNews, deleteNews
- User
- Properties: name
- Methods: generateID



View

UI: Reactjs

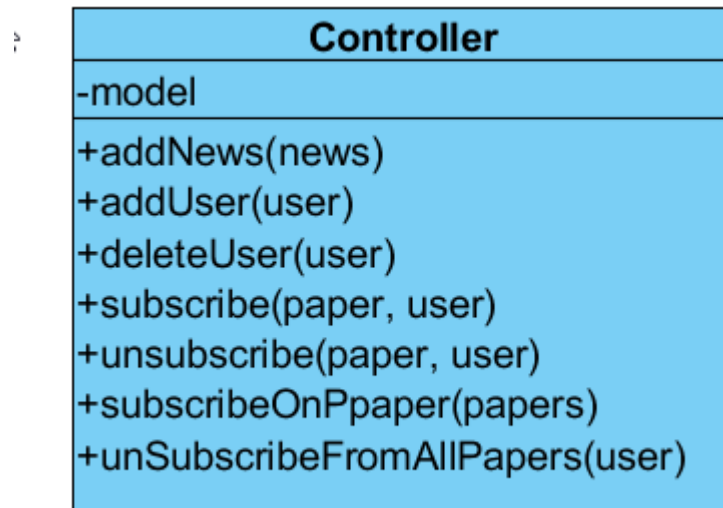
Include next classes:

- App
 - Methods: `updateState`, `componentWillMount`, `addUser`, `deleteUser`, `deleteFromInput`, `getFromServer`, `subscribe`, `unsubscribe`, `unsubscribeFromAllPapers`, `subscribeOnPaper`, `render`
- Header extend Component
 - Method: `render`
- Publisher extends Component
 - Methods: `componentWillMount`, `clearInput`, `handleServerRequest`, `handleClick`, `handleEnter`, `handleChange`, `render`
- Publishers extends Component
 - Method: `render`
- Subscriber
 - Methods: `handleSubscribe`, `subscribeOnPaper`, `unsubscribeFromPaper`, `deleteUser`, `render`
- Subscribers extends Component
 - Properties: `state`
 - Methods: `clearInput`, `handleClick`, `handleEnter`, `handleInputChange`, `handleSelectChange`, `render`



Controller

Class diagram



Include next classes:

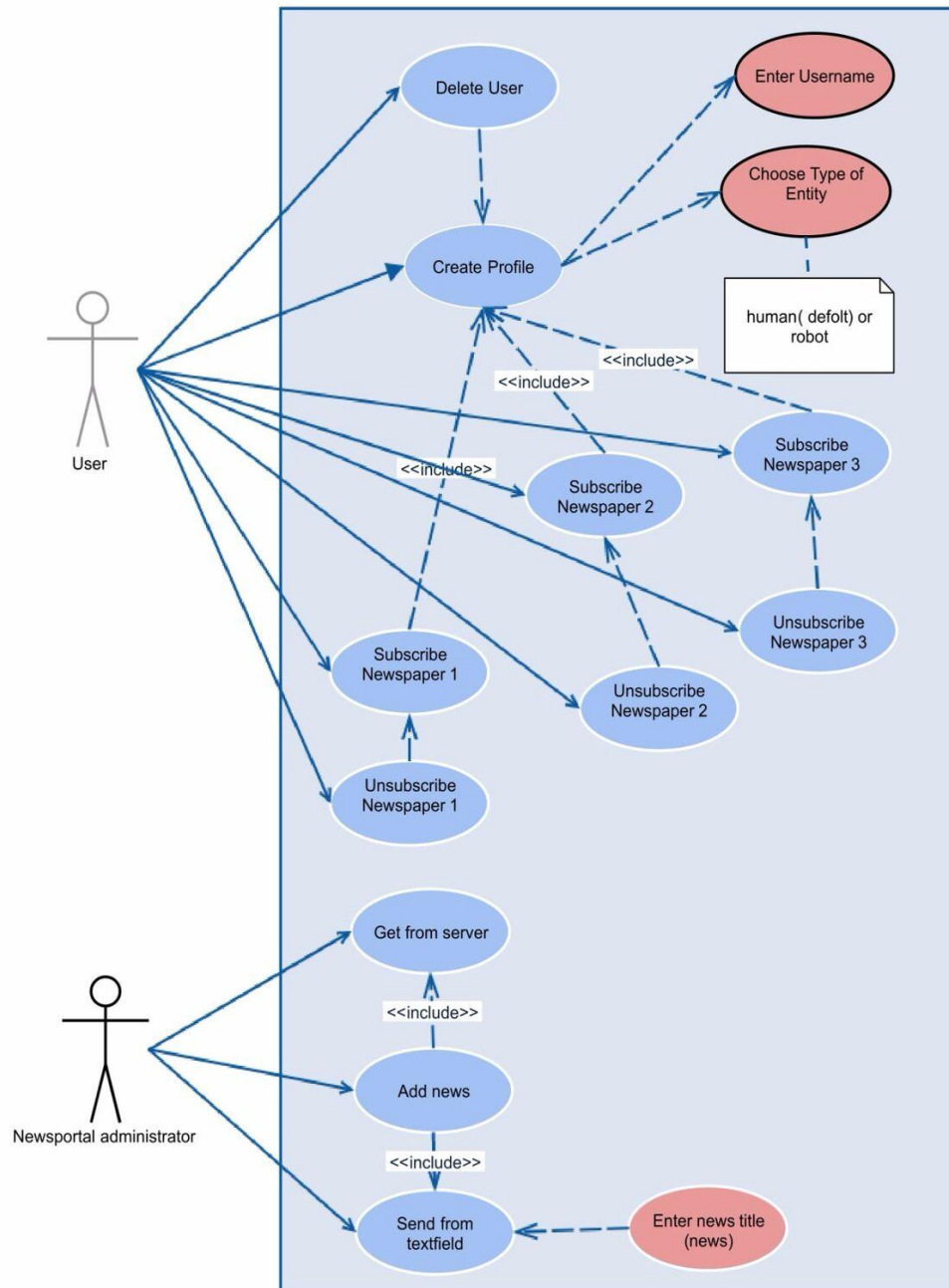
- Controller:

- Properties: model

- Methods: handleChange, addNews, addUser, deleteUser, subscribe, unsubscribe, subscribeOnPaper, unSubscribeFromAllPapers



Use cases





Stack

ECMAScript2015, Reactjs, CSS

Tools

IDE: WebStorm, Sublime

Communication: Slack

Project management: Jira

Version control: GitHub

Team

Bogdan Makarenko

Dmytro Soloviov

Galina Bartkova

Igor Kurchenko

Document version

1.0 15.11.2017 Soloviov Dmytro

1.1 22.11.2017 Soloviov Dmytro