

# Interactive Schedule Planer

2nd Milestone  
June 27th 2024

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# 1. Overview / Recap

- Task definition: Our project is to create a „Web-Based Interactive Schedule Planner for Lectures and Exams“.
- Topic: „Each semester the appointments for lectures, exercise classes and exams need to be planned.“ „Therefore, a graphical tool is needed that visualizes the current schedule, allows to change it by dragging events to a new place and highlights possible conflicts.“
- Team: Seyyed Mostafa Rahimi, Alexander Harry, Michael Gilge
- Distribution of roles stayed the same.

## 2. Development Process: Modified Scrum (i)

- Scrum Team (Product Owner -> Alexander, Scrum Master -> Michael, **Team -> Mostafa, Alexander, Michael**)
- Product Vision / Product Goal -> Web-Based Interactive Schedule Planer
- **Sprint Goal -> Milestone Goal**
- **Product Backlog -> Feature Planning Board & Product Backlog Board**
- Sprint Backlog / Task Board / Scrum Board -> Current Sprint Board
- Tasks -> Tasks of issues OR Issues with label type::task
- User Story -> Issue with label 'type::user story'
- Priority -> Number in front of the issue title
- Story Point -> Number in brackets after issue title
- Definition of Done -> Definition of Done / Acceptance Criteria ( Implemented, Deployed, Tested, Documented)
- **Burndown Charts -> Feature not available in GitLab Free**
- Potentially Shippable Inkrement -> Potentially Shippable Inkrement

## 2. Development Process: Modified Scrum (ii)

- **Sprint -> 1 month**
- Sprint Planning Meeting -> Sprint Planning Meeting once a month with presentation of User Stories and refinement
- Planning Poker -> Planning Poker
- **Daily Scrum -> Meeting once a week**
- Sprint Review -> Milestone Meeting
- Retrospective -> Milestone Meeting
- Impediment List -> Impediment List
  - Running out of time (not for 2n Milestone)

Life Demo!

# 3. Implementation

- Using library [‘react-big-calendar’](#)
- Technical framework conditions
  - Browser based (without server) ✓
  - React ✓
  - Material UI ✓ (But no calendar available)
  - HTML 5 local storage – Todo
  - TypeScript or JavaScript → JavaScript because of [‘react-big-calendar’](#)
  - Node Package Manager → yarn storybook
  - Gitlab Page as host – Todo
- Previous requirements: Create minimal viable product

Life Demo!

# 4.1 Planning - Time

## **Until 2nd Milestone - 27.6.2024**

- Learn about React and all the other technical necessities
- Experiment generating a web site
- Minimal viable product:
  - Implement calendar view
  - Implement drag and drop of events
  - Download schedule
  - Upload schedule

## **Until 3rd Milestone - 29.8.2024**

- Near to complete functionality of storage & retrieval
- Near to complete functionality of organizing events

## **Until 4th Milestone - 31.10.2024**

- Calculation of conflicts
- Highlighting conflicts

## **Until Acceptance Meeting - 6.11.2024**

- Make final report from partly reports.

## 4.2 Planning - Needed Time

Requirement	Estimated hours	Needed hours	Alexander	Michael	Mostafa	Σ Hours	Weeks	Date	Start date
Using Gitlab Page as host.	24	0,3	8	8	8	24	1	01.07.2024	15.05.2024
Using Node Package Manager for the build configuration.	20	3,45	8	8	4	44	1	04.07.2024	
Using React.	20	23,98	8	8	4	64	2	07.07.2024	
Using Material UI.	20	6,92	8	8	4	84	2	11.07.2024	
The current planning should be stored in the HTML 5 local storage.	24	-	8	8	8	108	3	15.07.2024	
Using Typescript or Javascript.	20	1,4	8	8	4	128	3	18.07.2024	
The application shall be browser based (without a server).	24	0	8	8	8	152	4	22.07.2024	
CSS	16	0	6	6	4	168	4	25.07.2024	
Storybook	0	8,37							
Setting up project	0	22,13							
Planning	0	40,3							
Meeting	21	38,75							
2.0.0 Landing Page	20	9,7				188	4	28.07.2024	
2.3.1 Creating an Appointment via button	20	4,88				208	5	31.07.2024	
2.3.2 Creating an Appointment via double click	20	0				228	5	04.08.2024	
2.3.3 Editing Appointment	15	5,05				243	6	06.08.2024	
2.3.4 Moving Appointment per Drag & Drop	20	11,42	46	0,76667		263	6	09.08.2024	
2.3.5 Deleting Appointment	12	1,23				275	7	11.08.2024	
2.3.6 Deleting All Appointments	10	0,5				285	7	13.08.2024	
2.2.1 Downloading File	20	6				305	7	16.08.2024	
2.1.1 Uploading File per Drag & Drop	30	4,77				335	8	21.08.2024	
2.1.2 Uploading File per File Selection	20	4	after 2.1.1			355	8	25.08.2024	2nd milestone
2.100.0 It should be nice and intuitive	10	0,5				365	9	26.08.2024	27.06.2024
	386	193,65							



## 4.3 Planning

- Risks not well considered
- Quality: Manual testing
- Documentation: Protocols & Specification

# 5. Goals until the next milestone

## **Until 3rd Milestone - 29.8.2024**

- Near to complete functionality of storage & retrieval
- Near to complete functionality of organizing events

## **Milestone 3a)**

- Upload initial schedule
- Create courses
- Define Lecture and Exam Periods
- Assign colors

## **Milestone 3b)**

- Auto save calendar
- Record changes & undo changes
- Go to date
- Filter