

# Weekure

Oleg Ligay



# About

Weekure is a scheduling web application that will optimize weekly events based on users' specific needs using different parameters provided by the user.

The screenshot displays the Weekure web application interface. On the left is a settings sidebar, and on the right is a calendar grid.

**Settings Sidebar:**

- Settings** (with an **Add/Edit** button)
- Events** (with a minus sign):
  - Days: 0
  - Hours: 0
- Calendars** (with a minus sign):
  - all (selected)
  - false
  - work
  - false
  - play
  - false

**Calendar Grid:**

	Sunday Jan 3	Monday Jan 4	Tuesday Jan 5	Wednesday Jan 6	Thursday Jan 7	Friday Jan 8	Saturday Jan 9
12 AM		Rekurs daily	Rekurs ...	Rekurs ...	Rekurs daily	Rekurs daily	Rekurs daily
1 AM							
2 AM							
3 AM							
4 AM							
5 AM							
6 AM							
7 AM							

# Goal

- Working prototype!
- Connected web pages with changeable data
- Minimum one parameter that will drive events on a calendar
- Research on algorithms for different event settings

**SETUP**

# Trello

The screenshot displays a Trello board titled "Culmination" with a green background. The board is organized into five columns representing different stages of a project:

- Preparation**: Contains cards for "Wireframe", "Content UI/UX", "Draggable component", "Add events service to a component", and an "Add another card" button.
- Pages & Components**: Contains a "Pages" section with "About Page" and a "Components" section with "Footer", plus an "Add another card" button.
- Functionality**: Contains an "Add a card" button.
- In-Progress**: Contains a "Front End" section with "Overall Changes" (1 comment), a "Pages" section with "Main page" and "Calendar page", another "Pages" section with "Events page", and a "Components" section with "Navigation & Header", plus an "Add another card" button.
- Testing**: Contains a "Platform choice" card (1 comment) and an "Add another card" button.

The top navigation bar includes icons for home, boards, search, and user profile, along with the Trello logo. The board header shows "Board" dropdown, "Culmination" title, and privacy settings (Personal, Public, Invite). Integration buttons for Butler (2 Tips) and Google Drive are visible on the right side of the header.

# Github

Search or jump to... Pull requests Issues Marketplace Explore

ligayoleg / Registration\_Helper Unwatch 1 Star 0 Fork 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

ligayoleg added rrule for recurring events 22 hours ago 28 commits

RegHelperApp	added rrule for recurring events	22 hours ago
.gitignore	RegHelp Angular App	6 months ago
README.md	Update README.md	3 months ago

README.md

## Weekure

The idea is to give full access to creating a weekly schedule by separating events into categories and optimizing them using different parameters provided by the user.

### About

A tool to help register for classes for the next semester

Readme

### Releases

No releases published  
[Create a new release](#)

### Packages

No packages published  
[Publish your first package](#)

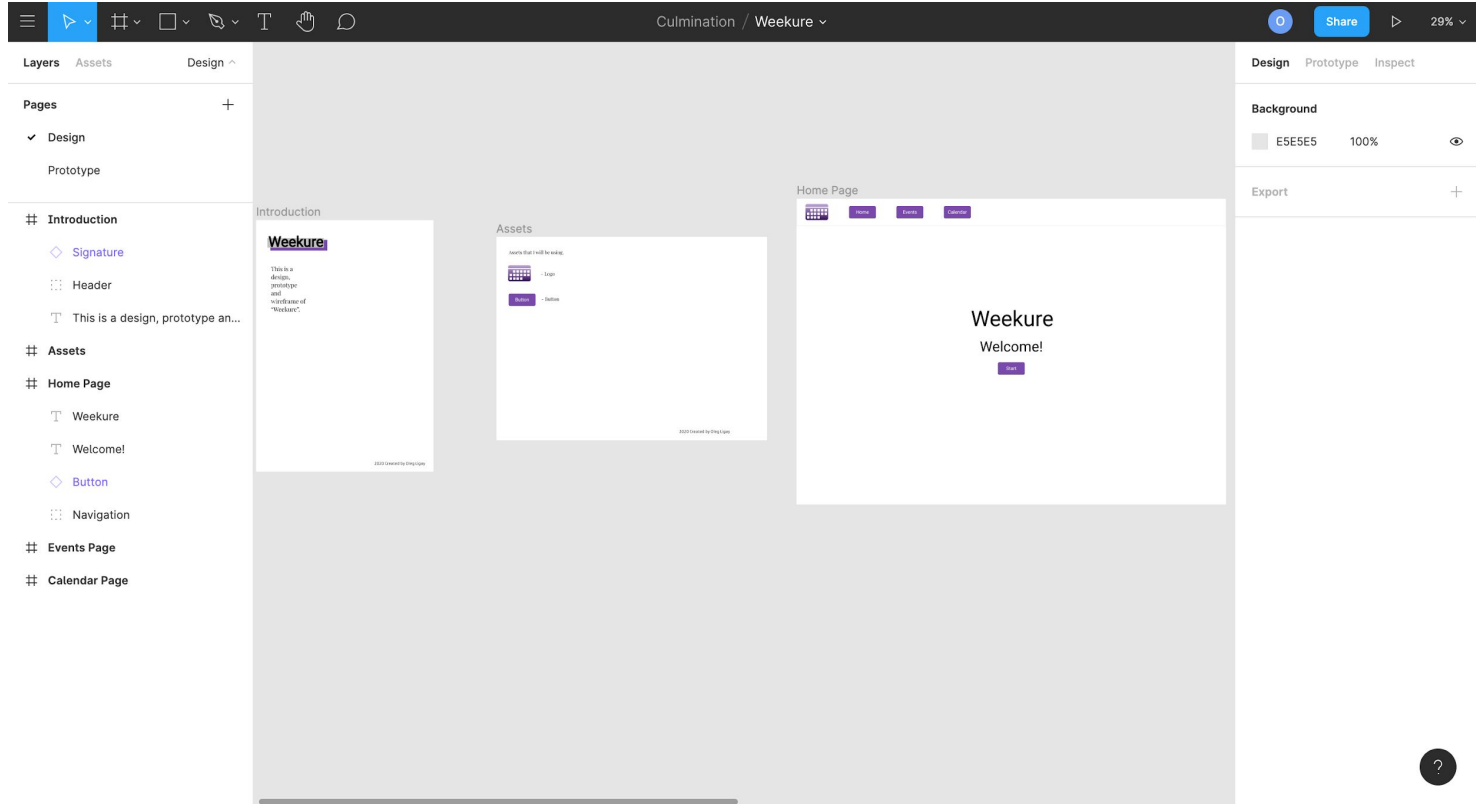
### Languages

TypeScript	82.6%	HTML	10.3%
JavaScript	4.1%	SCSS	3.0%



# **DESIGN & DEVELOPMENT**

# Design





# Development

- Front End / UI:
  - Home Page
  - Events Page
  - Calendar Page
  - Data flow between pages

# Development

- Logic
  - Events manipulation on a calendar using settings like random order
  - Research on planning habits of other people

# **MATERIALS & BUDGET**

# Materials - Front End

Angular - is a platform and framework for building single-page client applications using HTML and TypeScript

PrimeNG - is a collection of UI components for Angular.

Angular Calendar - a calendar component for Angular 6.0+ that can display events on a month, week or day view.

# Resources - Logic

OptaPlanner - Java solution for employee schedule planning for large organizations.

Constraint Satisfaction - constraint satisfaction is the process of finding a solution to a set of constraints that impose conditions that the variables must satisfy.

# Budget

- HP Spectre x360 13'' – \$1399.00
- Microsoft Sculpt Keyboard – \$129.99
- Logitech Triathlon M720 – \$49.99
- Editor is free (Visual Studio Code)

# Budget

AWS - Amazon Web Services - 1000 people

- Web Hosting + Domain - \$500/month
- RDS Storage (5TB) - \$1150/month
- EC2 Computing for API - \$250/month
- Total: ~ \$1900/month per 1000 users or \$1.9/month per user.

# **CHALLENGES & LESSONS**



# Challenges

- Time - 10 weeks were not enough.
- Lack of knowledge, especially algorithms / logic.
- Changes in design and development.
- Debugging & troubleshooting.

# Lesson #1

- Progress is not a perfection, it is a routine.



## Design

- Summarize an idea.
- Gather information.
- Setup design
- Set up Trello
- Set up ePortfolio.
- Setup Github.
- Create front-end

## Database

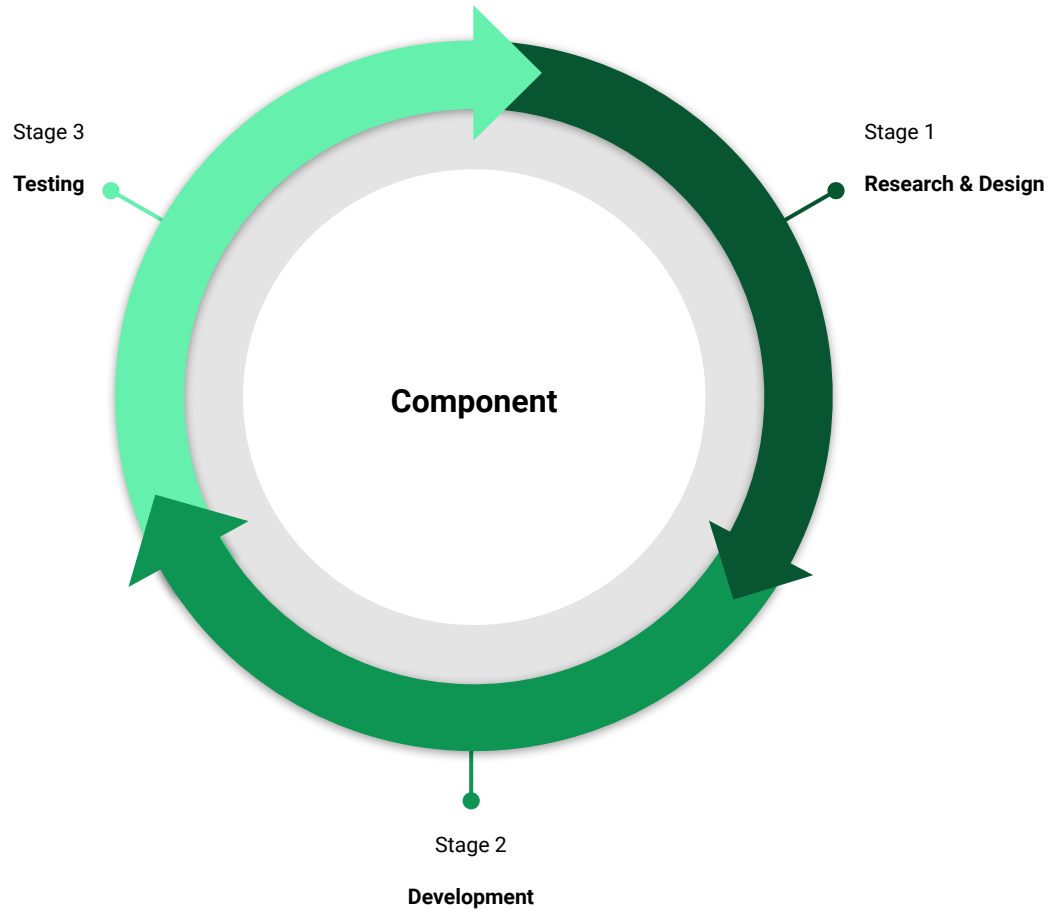
- Work on Database
- Design database using parts of UML.
- Create Development and production DB environments.
- Setup Development DB using MySQL.
- Create tables.
- Create stored procedures

## API

- Create an API.
- Add controllers to control data from the database to the website.
- Test website and functionality of the website throughout the development process.

## Deployment

- Deployment.
- Build a final version of the product.
- Setup AWS for storing database
- Setup AWS to store and run API
- Add a build version of the website to the hosting.
- Deploy website.

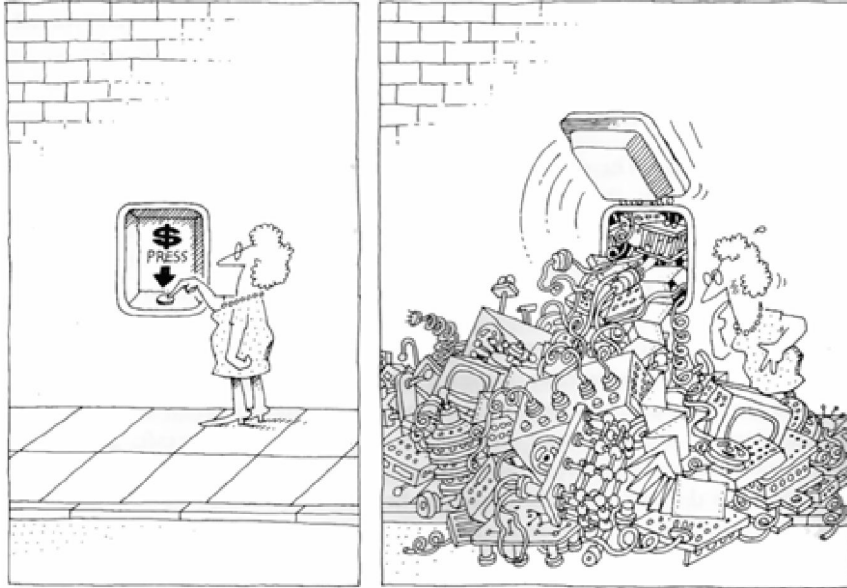


# Lesson #2

- Planning requires more compartmentalization.
- Setting realistic goals and working in small increment steps.

# Lesson #3

- One man project is an Everest that requires time and resources.



# **SUMMARY**

# Accomplishments

- Home, Events, and Calendar pages with proper navigation
- Set environment for future development (Github, Trello)
- Functionality of events between pages without loss of data

# Future additions

- Algorithmic way to categorize events on a calendar
- Documentation
- Settings for calendar to adjust time in a day
- AWS hosting, database, API services
  - I will research using AWS for cloud storage
  - EC2 computing for API
  - Hosting on AWS of single page applications



# Links

[https://en.wikipedia.org/wiki/Constraint\\_satisfaction](https://en.wikipedia.org/wiki/Constraint_satisfaction)

[www.openlab.citytech.cuny.edu/oligay-eportfolio/](http://www.openlab.citytech.cuny.edu/oligay-eportfolio/)

[https://github.com/ligayoleg/Registration\\_Helper/tree/master/RegHelperApp](https://github.com/ligayoleg/Registration_Helper/tree/master/RegHelperApp)

<https://www.figma.com/file/g4l9ujuSg2JjFGTiWAmLhJ/Weekure?node-id=0%3A1>

<https://trello.com/b/ffhJt7Se/culmination>

[www.olegligay.com](http://www.olegligay.com)

**THANK YOU!**