Technical University of Moldova

Faculty of Computers, Informatics and Microelectronics

Software Engineering and Automation Department

The Basics of Software Application Development

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# Modular Organizer

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## 1 Abstract

## 2 Introduction

### 2.1 Problem formulation

For our project we decided to tackle the problem of the big quantity of the calendars, reminders, task apps, in day-by-day life. This is a big problem that we encounter and this is what we base on.

From our experience, we get regularly tasks which contains deadlines. The problem is that we get them on different platforms from different organizations like university, work or other places. We get many daily events which take place on separate platforms. We can take and rewrite and introduce the same information multiple times on different calendars and this will take a lot of time and efforts. And all this can increase the chance of error occurrence, much less people that are working with many clients and customers which can daily organize different events on different platforms. They deal with focus loss and this can influence their and other lives like a forgotten meeting, undone work or missed deadline.

### 2.2 Solution concept

After listed above we thought about creating an online platform / site designed for vast group of users from day-by-day life to more specific work and study schedules. The aim of the site is to have a calendar with a list of tasks and a lot of modules that can be chosen and arranged as desired for everyone. We will try to introduce many helpful modules which are integrated in calendar and for getting a better-quality user experience we will introduce assistant that will help user step-by-step how to use and how to organize in site calendar. By creating a site which will help people to organize time, by combining many platforms in one will improve work speed and also will help with reminders which will make planning more enjoyable and easier than ever.

### 2.3 Motivation

Our second aim of this site is to have all schedules arranged on one screen where users can easily interact with them as well due to the introduced assistant, interaction with the site will be more interactive and intuitive. We want users to manage their time-efficient using our site, due to installed custom modules there are no limits about the site's abilities in terms of interaction with users, it can show incoming tasks, show the traffic situation, shows the bus in the traffic, tell about weather conditions, and recommendation about the weather also it can communicate with other sites via API to increase even more the possibilities of user managing time using our site like booking a place to a café, make invitations for events, booking seats to the movie theatre.

Furthermore, in order to motivate users to use all possibilities of the site we introduce the challenges/ranking system based on how much they use all feature of the web app.

Not to get too messy at the start assistant will companion users through all necessary steps to understand how to integrate and use modules, how to integrate and manage new calendars and how to use the all the potential of the site.

# 3 Domain Analysis

## 3.1 Impact of the problem over the domain of study

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## 3.2 Target group

The leading audience of the app will be English speaking active study-working people which have a lot of tasks events which are related to teams or companies that work on different platforms, or for startuppers who have an extremely flexible schedule and need a platform which will help to organize all particular tasks and events on one board. The audience target age is 16-35

## 3.3 Customer validation

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## 3.4 Competition

a) Google calendar is not the most intuitive app of using tasks and schedules it has a lot of special conditions to get the desired result

b) SuperSaaS is good at creating group schedule, but because of the design of the site is hard to understand what happens, saves the situation the support and tutorials page, it supports the work with forms directly when accessing the schedule which is very efficient in scope to get additional information

c) Outlook to get all the possibilities of the calendar you need to pay, is free for students and have many integrated applications which can communicate direct whit each other that increase productivity it is a combination of calendar and email it is very easy to share about events and set tasks and reminders for groups or selected people

d) Jorte Calendar theme changing, can use free but to get the chance to change the appearance of the calendar you need to pay subscription

e) Calendly it is app which works very good with establishing new meetings and events because it gave you to choose the rules that all participants can choose between the permission you establish it is time zone but the free users are limited to 1 calendar and basic functions which do not let user to feel the power of this app

# 4 System Design

## 4.1 Objectives

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## 4.2 Requirements specification

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## 4.3 Abstract/Schematic Diagram of the presented solution

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## 4.4 UML Diagrams

### 4.4.1 Use case

3 diagrams at least

### 4.4.2 Component

2 diagrams at least

## 4.5 Sequence

2 diagrams at least

## 4.6 Activity/State-chart

(If these apply)

# 5 Implementation

## 5.1 Solution Strategy

### 5.1.1 Architecture decisions

### 5.1.2 Technology stack

## 5.2 Project initialization

### 5.2.1 Task management/distribution

Using Trello, Jira etc.

### 5.2.2 Distributed Version Control of the involved repositories

### 5.2.3 Links to all the repositories which store the project components

## 5.3 Next subsections are custom for each team...

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## Conclusion

Paragraph

## References

1 Example Author 0, *Name 0*, `www.google.com`

2 Example Author 1, *Name 1*, 2002