wastun.at

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Content

1 Introduction

Our project “wastun.at” is a website which helps the user planning his spare time. When using our website, the question: “what to do?” won’t be present anymore. Just search up on our app, drag some filters for price, reachability, preferences and your perfect spare time activity is right there, with price information, route planning and a plan of how to get there with public transport.

Wanna go partying but don’t know where? This question bothers us and many other teenagers nearly every weekend. Wastun.at provides remedy! The user can search up easily for events nearly, including nearby taxi-drive route planning, public transport, how many people are interested and the rating of the event.

During a teenagers life, time is prescious, they usually want to make the best out of it. So spending lots of time, just to plan your weekly partying or activities with friends is not very desirable.

~~This is where our website comes in handy. The main idea of wastun.at is to make spare time organisation much easier and less expensive. For example if a user wants to go to a party on the weekend, he can just search for event in the app. It will show him all events known in his range, how many people attend to it, the rating of the event holding company, how to get there and much more~~.

2 Initial Situation

Event Types

We show the following event types in website:

- Parties
- Club-Events
- Bars
- Spare time activities
  - Sporty Activities(swimming,climbing, lasertag, billiard)
  - Non-Sporty Activities(games for home, cinema, points of interest)

Current Situation

~~During a teenagers life, time is prescious, they want to make the best out of it. So spending a lot of time, just to plan your weekly partying activities with friends is not desirable. Googling for activities, just to find ones you do not like or ones that are just too expensive for your small budget is really not the yellow of the egg.~~

Another example: Did you ever spontaneously search an event for tonight or just the weekend.? Several minutes of Facebook event searching will do the trick, but again, it would be much easier and way more comfortable if you could see a list of all ongoing events at one sight.

3 General Conditions and Constraints

The main-resource we'll need for this project is work time. We try to make out project available on most platforms including PC and Mac, but also mobile phones and Tablets. This is why we decided to go for a web application. For the frontend we use HTML 5, Sass and TypeScript. The Backend is written in Java 8 with additional Frameworks like Spring. To make our web application accessible for Smartphones and Tablets, we use Electron to convert it into a mobile application for Android, iOS and Windows, instead of developing a native application each.

Even though it's possible to log in into our application via Facebook, the user should also be able to use it without creating an account. But since the volume of events is depending of the users connected with Facebook (*as explained in Ch. 4 "Project Objectives and System Concepts*"), we offer some features for users who log in with Facebook.

4 Project Objectives and System Concepts

Event Feed

- Facebook
- Registered users can add events
- Crawlers

Basic Functionali

Our website can be used by any user with internet access. It is important to note that no registration or transmission of personal data is needed to use our services. Basically the following features are provided:

- Search for events
- Filter events by what
- Get public transport information to go there

Searching

Facebook Integration

Additionally to the basic functionality listed above it is planned to offer a richer feature set to users who register on our website via Facebook. We focus on this approach because of the following reasons.

One of the current main sources of event-posting is Facebook. We chose Facebook, because they have an API accessible whic akes things a lot easier. If the user now wants to use our website he has the option to register with Facebook, to help us to find even more events via Facebook. The user access is needed, to get a token for the API, to fetch Events. With the permission of the user, our app can now read his events, to add them to his own on the website, and also lists them to other users(ar the event is a public one of course).

To make the Facebook login on our website more ap zing we give the user the following features if he signs up:

- (Helping our website to find even more events!)
- My-Events Slider with all Facebook-Events of the user and those he chose on our website
- Friends-Feature: Which friends go als this party
- Reminder-Feature: An integrated calendar that reminds the user of his events, alarm included
- Filter: Searching activities automatically get filtered with the information

After that, he chooses if he wants to find events for partying, or just spare time activities. Moving on he can select the range in what he wants to search, if he wants public transport, how much money he wants to spend. If he searches for spare time activities the user can also choose if he wants to go outdoor or indoor and if the event should be sporty or not.

Interfaces to Other Systems

On the technical side our website works with a lot of APIs. To find the events, the Facebook-API is used. If a user uses our site with Facebook, his whole public events get recognised and put into our event finder, the private events remain private, of course. To have a static number of events, we also use several “crawlers” which are Facebook users, just made to get as many events as possible on the website.

To get travel routes, taxi-drivers nearby, event their prices an ore we use the Google Maps API. For the public transport information, ÖBB Scotty API is used.

Connected with the user’s location, we can provide information about the best events in range, public transport, travelling routes and taxis nearby.

To maybe get more information than shown on the Facebook page, an auto generated message gets sent to the event manager to post more information on our website. For posting an event or a spare time activity a form is ready on our web page. After the form is filled and submitted, the new event gets checked by us and if it is not spam or junk, it gets added immediately.

Technology Stack

For the Frontend we use HTML 5, Sass and Typescript, the Backend is written in Java 8 with additional Frameworks like Spring. To make our web application accessible for Smartphones, we use Electron to convert it into a mobile application for Android, iOS and Windows, instead of developing a native application each.

5 Opportunities and Risks

Opportunities

- The website could reach a wide number of users. Asking several people, the response was always positive. Nearly everybody has spare time and wants to spend it as perfect as possible.
- Most of today`s people have an internet access which makes our app accessible to a really big amount of persons.
- ~~The website can be viewed by every device with internet connection. Applications for Desktop, Android and iOS will also be released~~.
- Collaborations with several cab companies and event management companies are possible(get listed first, show as alternative).
- ~~Without users, event listing is also possible(several Facebook crawl users, maps API)~~

Risks

- Porting the website to applications will be difficult.
- Without a userbase, no all events can be shown
- Facebook has to verify the application and grant access for sensible user data like events

6 Planning

~~The official project leader is Markus Geilehner since he already has a vague structure of the project in his mind. But nevertheless we try to include the ideas of all of us.~~

The resources we need are worktime, a server for the website and several software developing environments.

Project and implementation work have already started since the beginning of the school year

The major milestones we have for now are:

18.10.16	Login-Register Frontend (finish)
18.10.16	Login-Register Backend (finish) (DB etc.)
18.10.16	Electron Protoype (iOS and Android)
	more Milestones will be added soon

7 List of Abbreviations

Abbreviation	Explanation
API	**A**pplication **P**rogramming **I**nterface