

What's up in RJ

Graduate



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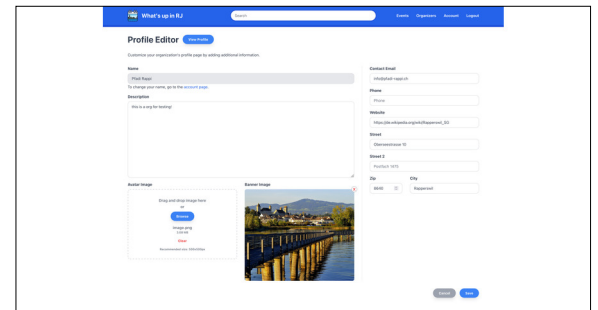
Initial Situation: Rapperswil-Jona is full of activities and events that are taking place all year round. Organizers are promoting them through various channels, such as social media, posters, newspapers, and websites. With the platform 'What's Up in RJ', a central place is created, where events can be published and viewed by the public. A previously developed prototype in the context of a 'Studienarbeit' is to be further developed and improved. The existing web application provides the basic functionality to create and manage user and organizer accounts. The organizers were allowed to create, edit and delete events. All viewers were then able to view, search and filter the events. Additionally, registered users can subscribe to a newsletter. The goal is to add needed features for the platform before going live.

Approach: The existing three tier web application is to be refactored in a first step to create a clean code base. Then, PostgreSQL based database is updated with new tables and single fields in existing tables. The backend is extended with new API endpoints, and remains the sole layer to implement business logic and communicate with the database. Furthermore, it communicates with the external DigitalOcean Spaces object storage and the SendGrid API, to store images and send emails respectively. The Angular frontend is to be extended to incorporate all new features.

Result: The result is a web application with various new features. Organizers can create their own profile page, where they can present themselves with a description and contact information. They are also able to upload images to their profile page and events. The newly added administrator can log in to access the admin panel that contains user and category management panels, giving them the ability

to verify and unverify organizers, and view all organizers, users and administrators. Furthermore, email verification has been implemented to prevent spam accounts. A new onboarding process for all users is also shown after signing up. Finally, all users, logged in or not, can use the platform on different screen sizes and mobile devices due to the new responsive design.

Profile Editor including Image Upload Fields Own presentation



User Management on the Admin Panel displaying a List of Organizers Own presentation

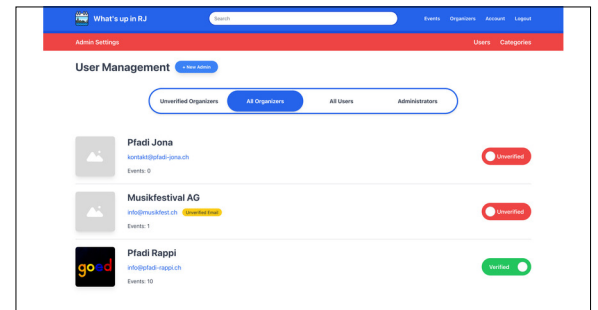
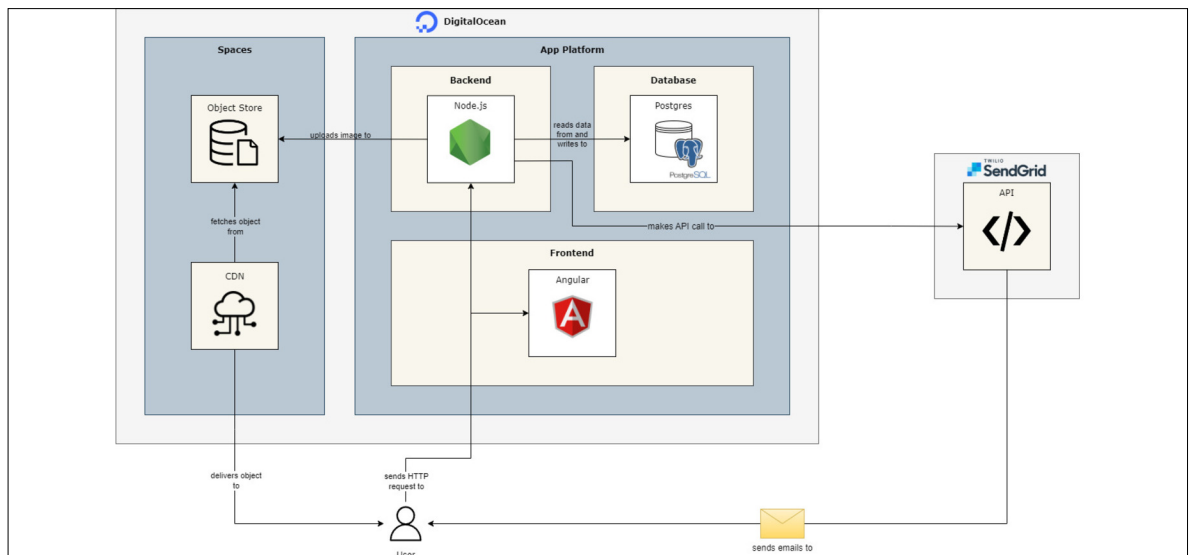


Diagram showing an Overview of the Architecture Own presentation



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Subject Area
Internet Technologies
and Applications

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