

# Rally

**STL Neighborhood Networking Application**

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# Description

- Website tailored to neighborhoods with the STL metropolitan area
- Designed to fulfill the need for increased community connection
- Provides information, resources, services, opportunities, and connections with residents



# Features

- Secure login
- Community forum for messaging
- Events page to offer project ideas and to solicit volunteers
- Restaurant listings in the community with reviews
- Services page listing offers or requests for freelance work or needed items
- Resources page that includes a table of important local information



# Technology Stack

- Front End
  - JavaScript / Typescript
  - Angular, live and deployed at <https://home-5013300400.app-ionos.space/>
  - Bootstrap
- - Back End
    - Java
    - Spring Boot with Spring Security, acting as a RESTFUL API between the front-end and backend, handling all requests.
    - Hibernate
    - MySQL, live connected to AWS as the backend



# Demonstration



# What We Learned

- How to build a fully functional application with a team
- How to navigate Angular
- Connecting Front End with Back End
- Incorporating Spring Security
- Deployment

QUESTIONS?



# Our Outline Slides



# Rally

## STL Neighborhood Networking Application

### Programmers:

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# What is Rally?

- ❖ Website tailored to neighborhoods with the STL metropolitan area
- ❖ Designed to fulfill the need for increased community connection
- ❖ Provides information, resources, services, opportunities, and connections with residents
- ❖ Includes:
  - community forum for messaging
  - events page to offer project ideas and to solicit volunteers;
  - restaurant listings in the community with reviews
  - services page listing offers or requests for freelance work or needed items
  - resources page that includes a table of important local information

Our website is deployed! Check it out at <https://home-5013300400.app-ionos.space/>

# Technologies Used

## ❖ Front End

- Javascript / Typescript
- Angular, live and deployed at <https://home-5013300400.app-ionos.space/>
- Bootstrap

## ❖ Back End

- Java
- Spring Boot with Spring Security, acting as a RESTFUL API between the front-end and backend, handling all requests.
- Hibernate
- MySQL, live connected to AWS as the backend

# Home

- ❖ Create Impression that captures what Rally represents
  - Logo
    - Simple, understandable, expresses a CTA
  - Colors - visual impression
    - Green: freshness, vitality
    - Orange: bright, positive
    - Blue: peace, trust
  - Language - sense of community
    - We, us, our - part of something

# My Profile

- ❖ Create an online persona on the Rally application to engage with the Rally community.
- ❖ Login to an existing account or Register as a new user.

## ❖ Registration process:

- Create a user name
- Enter a valid email address
- Create a password
- Enter user information to display on profile
- Validate the account via confirmation email
- Login!

## ❖ Profile Picture/ Search/

### Direct Message

- Add Profile Picture
- Make some friends
- Search users by Name or by characters
- Send a Direct Message to someone
- Update your Information

## ❖ Post History

- We need to make some posts to see this section in action. Let's see this in action with an established account.
- View Services, Events, and Forum Posts.
- Hide Posts from your history, or show them again when you're ready.
- Let's explore the rest of what Rally has to offer!

## ❖ User Security

- Users are issued an access token using JWTs
- Passwords are encrypted using Bcrypt
- Using a real email helps to mitigate fake accounts being created.

# Events

- ❖ Event List
  - filter by category/date
- ❖ Event Page
  - updates # attending, comments
  - Google map
- ❖ Create Event
  - stock photo
  - accessible from user profile
  - Creator - view UPDATE button on Event page
    - populates form
    - edit or delete
- ❖ Join Event
  - comments, # attending updated
  - accessible from user profile
  - Joined - view UPDATE RSVP on Event page
    - populates form
    - edit or delete
- ❖ Future
  - photos, map, responsive design

# Services

- ❖ Home page to Add Service or Search Services
- ❖ Add Service Form
  - Services Repository
  - Tagging for Categories and Service Type (by offering or requesting)
  - Redirecting to a new form after submission
- ❖ Search Services Table
  - Displaying all services
  - Two-way sorting, filtering by Service Name and Service Type
  - Links on each item to the full description
- ❖ Service Item View
  - Full details of the item to include description and contact information
  - Option to message the poster to get more information or book the service
  - If the original poster, button intended to remove the item if desired – but not part of MVP

# Resources

## ❖ User Actions:

- **Create:** new resource
- **Read:** existing resources
- **Update:** edit resource details
- **Delete:** remove a resource

## ❖ Resource Details:

- Name, Address, Category, City, State, Zip, Website, Email Address, Telephone Number

## ❖ Resource Categories:

- Athletics, Arts, Business, Civic, Education, Entertainment, Fitness, Hospitality, Medical, Park, Religious, and Retail

## ❖ Challenges

- Spent a lot of time troubleshooting 400 errors related to different nomenclature in post and get requests from front to back-end

# Restaurants

- Home page -view restaurants by restaurant type, perform search, view all restaurants or add a restaurant to the website
  - search- displays given restaurant/s according to users search
  - view all- redirects user to view a list of all restaurants
  - add restaurant-form submission that add a restaurant to the database and redirects user to view all restaurants in the same category upon submission
- ❖ Clickable “review” link on all restaurant redirects users to a review component, within which they can leave a review for the given restaurant
- ❖ Challenges- linking front and back end via get/post requests in typescript files.



# Community Forum

## ❖ Forum home page

- Five Different Topics to Choose From, Each Linked to a that Forum Topics specific route.

## ❖ Forum Topic Pages

- List of posts, sorted by newest to last displayed
- Like buttons, with the ability for a User to “like” a post he enjoys or agrees with. A user cannot like the same post twice, clicking again will undo like.
- Ability to click on the name of the users that posted, linking to their user profiles.
- Ability to click on each Post title and take it directly to their individual view pages
- Authentication - Ensures that only logged in users can create or like posts. Logged out users can only view

## ❖ Forum search page

- All pages come equipped with a search bar on the right-hand side, the search will catch any username, post title, or post description.
- Displays list of posts that come in the search, with the ability to click on the name of the users that posted each one, linking to their profiles.

## ❖ View Individual Post Page

- CRUD - Ability to create, update, or delete both your individual posts or replies.
- Authentication - Ensures that only the person who posted both the post or reply have the ability to edit or delete them.

## ❖ Miscellaneous

- Light-dark theme, ability for a user to switch between a light and dark theme, their preference being saved in local storage.

**Questions?**

**Our Deployed Site:**  
**[https://home-  
5013300400.app-  
ionos.space/#/hom  
e](https://home-5013300400.app-ionos.space/#/home)**