Rally for Lakes

- Rahul C Shekhar (PES1201802486)
- Sahana T J (PES1201802160)
- Jeevan Jagadish (PES1201801855)

Guide :

Mr. Santosh S Katti

Assistant Professor

MCA Department

PES University

ABSTRACT

- The website will provide information about the lakes like to which state, district, taluk, hobli, village and zone it belongs to, before and after images and their rejuvenation process.
- The website allows volunteers and corporates to register and take part in the rejuvenation process.
- The website allows the registered volunteers and corporates to post their queries related any particular lake.
- The website also provides the admin a separate panel to manage all the data.

INTRODUCTION

- The website gives information about the different details of lakes to the general public.
- The website gives zone wise rejuvenation status of the lakes.
- The website also helps bring together the volunteers and corporates who are willing to take part in the rejuvenation process.
- The website also gives information and notifies the registered volunteers about the different events that will be hosted by the Malligavad Foundation.

LITERATURE SURVEY

- There are a lot of people who won't know much information about the lakes around them except for its name.
- There is not much information about the lakes even on the internet which only consists of the lake's name, dimension and location.
- There is no proper platform to bring together the like minded people who want to help or work on the lake rejuvenation process.
- There is no proper platform available for the people to post their queries on lakes to a concerned body.

USERS

- **Admin**
  - Manages the content of the website.
- **Visitor**
  - Any guest who visits the website.
- **Volunteer**
  - The registered volunteers.
- **Corporates**
  - The registered corporates.

TOOLS & TECHNOLOGIES

- **Frontend :**

  - React.js v16.11.0

- **Backend :**

  - Node.js v10.16.3

- **Database (NoSQL) :**

  - MongoDB Atlas

- **Cloud Deployment :**

  - Heroku Deployment

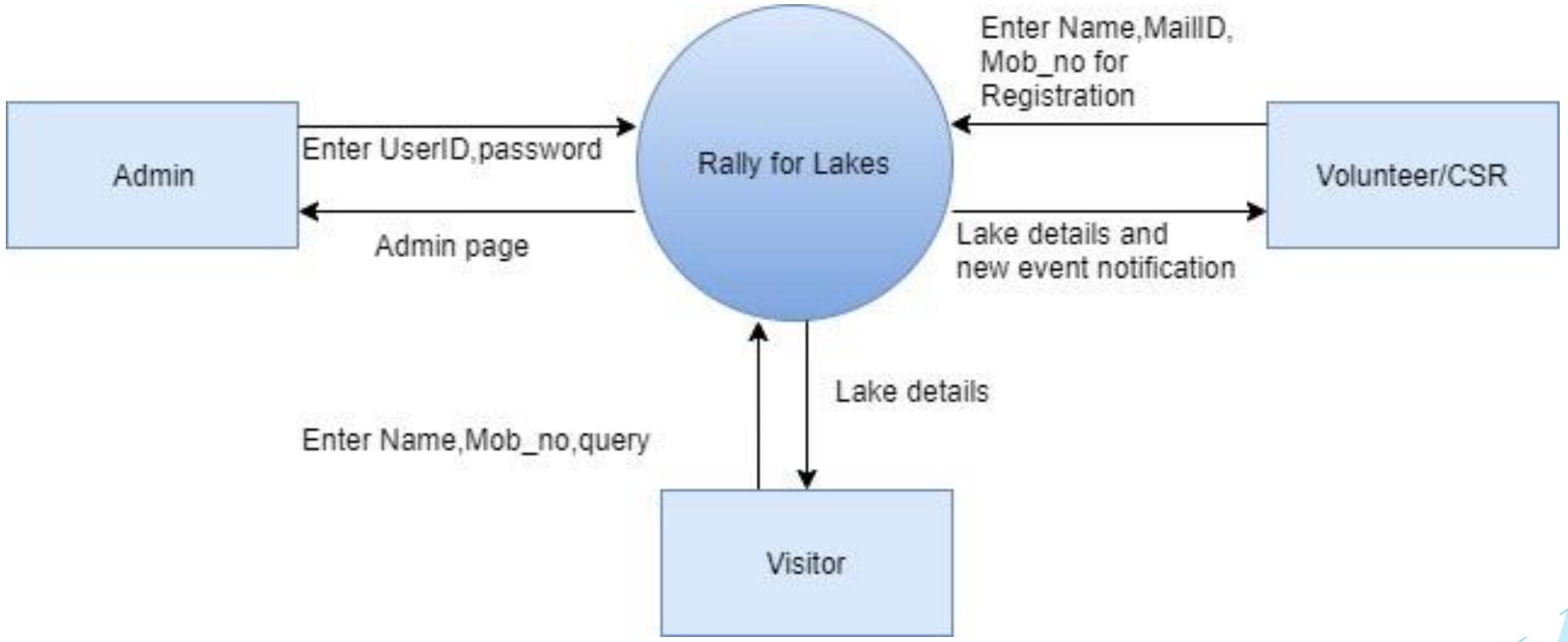
FUNCTIONAL REQUIREMENTS

- Login/logout - Admin uses application by login and can later logout.
- Content management - Lakes, Events, Volunteers, Corporates, ZoneCode, Queries, ContactForm.
- Send notification - Notifying registered users about the newly added events.
- Render the newly added data.
- Registration - Volunteers and Corporates registration for lake rejuvenation.
- Post queries - Volunteers and Corporates post queries related to specific lake.

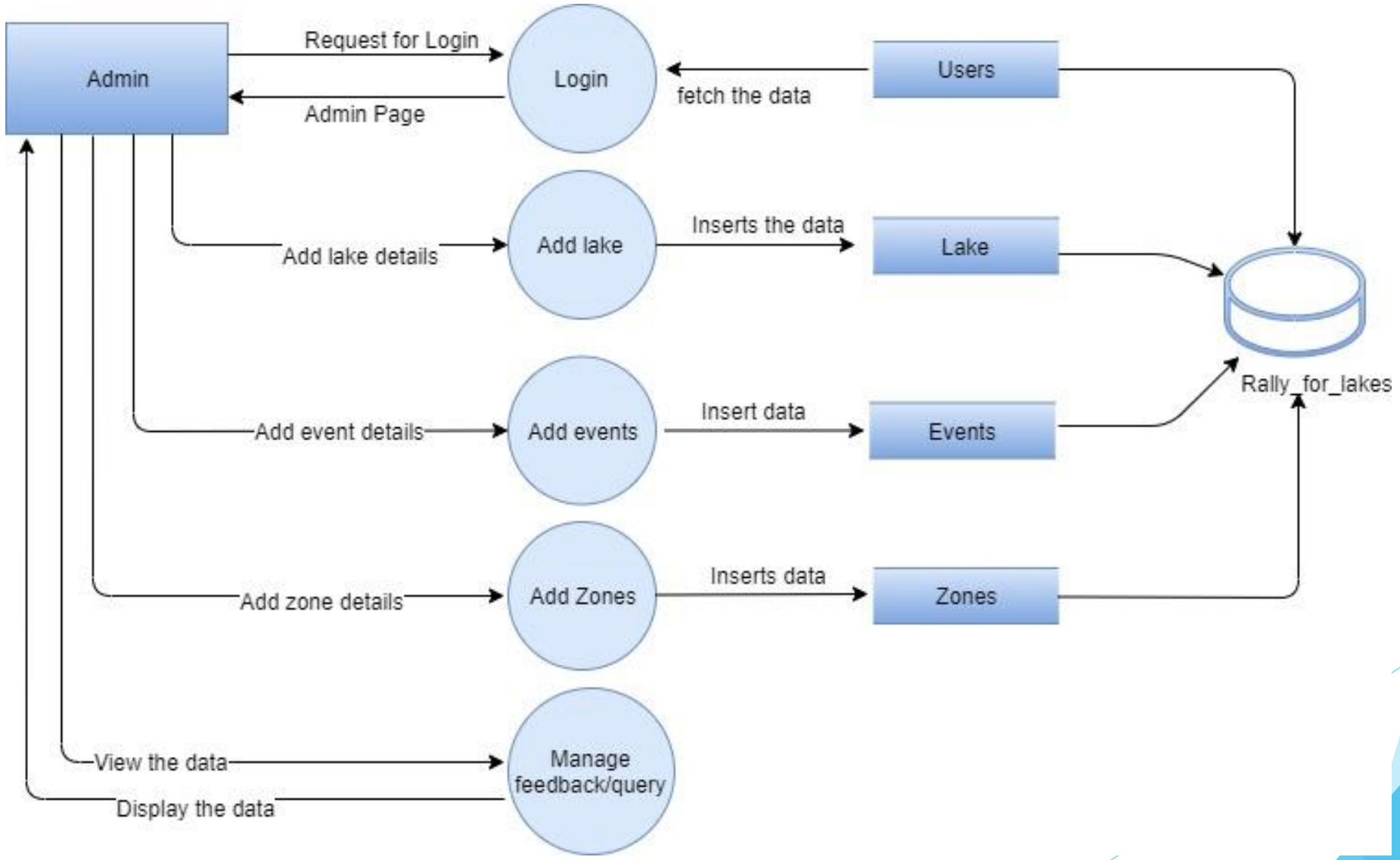
NON - FUNCTIONAL REQUIREMENTS

- Availability
- Security
- Usability
- Performance

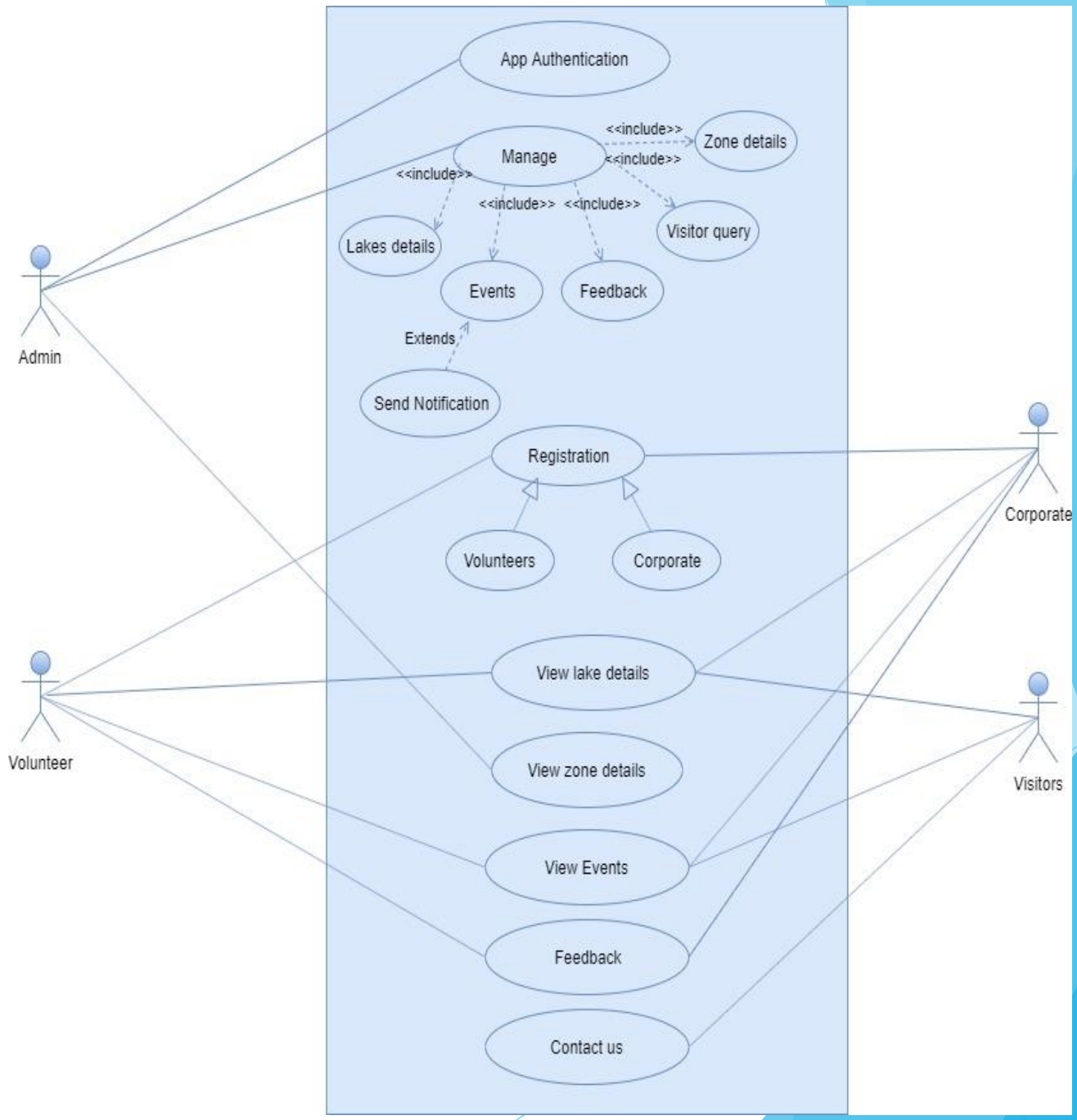
DATA FLLOW DIAGRAM - LEVEL 0



DATA FLLOW DIAGRAM - LEVEL 1



USE CASE DIAGRAM



DOCUMENT STRUCTURE

```
"corporate" : {
  name: { type: String },
  email: { type: String },
  mobile: { type: Number },
  companyName: { type: String }
}
```

```
"users" : {
  username: { type: String },
  password: { type: String },
  email: { type: String },
  roles: { type: String },
  createdAt: { type: Date },
  allowAccess: {
    type: Boolean,
    default: true
  }
}
```

```
"volunteer" : {
  name: { type: String },
  email: { type: String },
  mobile: { type: Number }
}
```

```
"lake" : {
  recordNumber: { type: Number },
  state: { type: String },
  district: { type: String },
  taluk: { type: String },
  hobli: { type: String },
  village: { type: String },
  zone: { type: String },
  status: { type: String },
  video: { type: String },
  imgBefore: { type: String },
  imgAfter: { type: String }
}
```

```
"events" : {
 name: { type: String },
 dateFrom: { type: Date },
 dateTo: { type: Date },
 timeFrom: { type: timestamp },
 timeTo: { type: timestamp },
 location: { type: String },
 imgURL: { type: String }
}
```

```
"zones" : {
  zoneCode: { type: String }
}
```

SCREENSHOTS

Rally For Lakes

Home Lakes Events About Us Join Us Contact Us

Our Approach

Our philosophy is to bring back the lakes to its original form. It means the ecological revival of lakes with the minimal use of any modern material.

Our methodology focuses on rejuvenation of a lake within a limited span of time and minimal budget. They are designed and executed in a technical manner which involves modern re-engineering and scientific techniques.

MALLIGAVAD FOUNDATION

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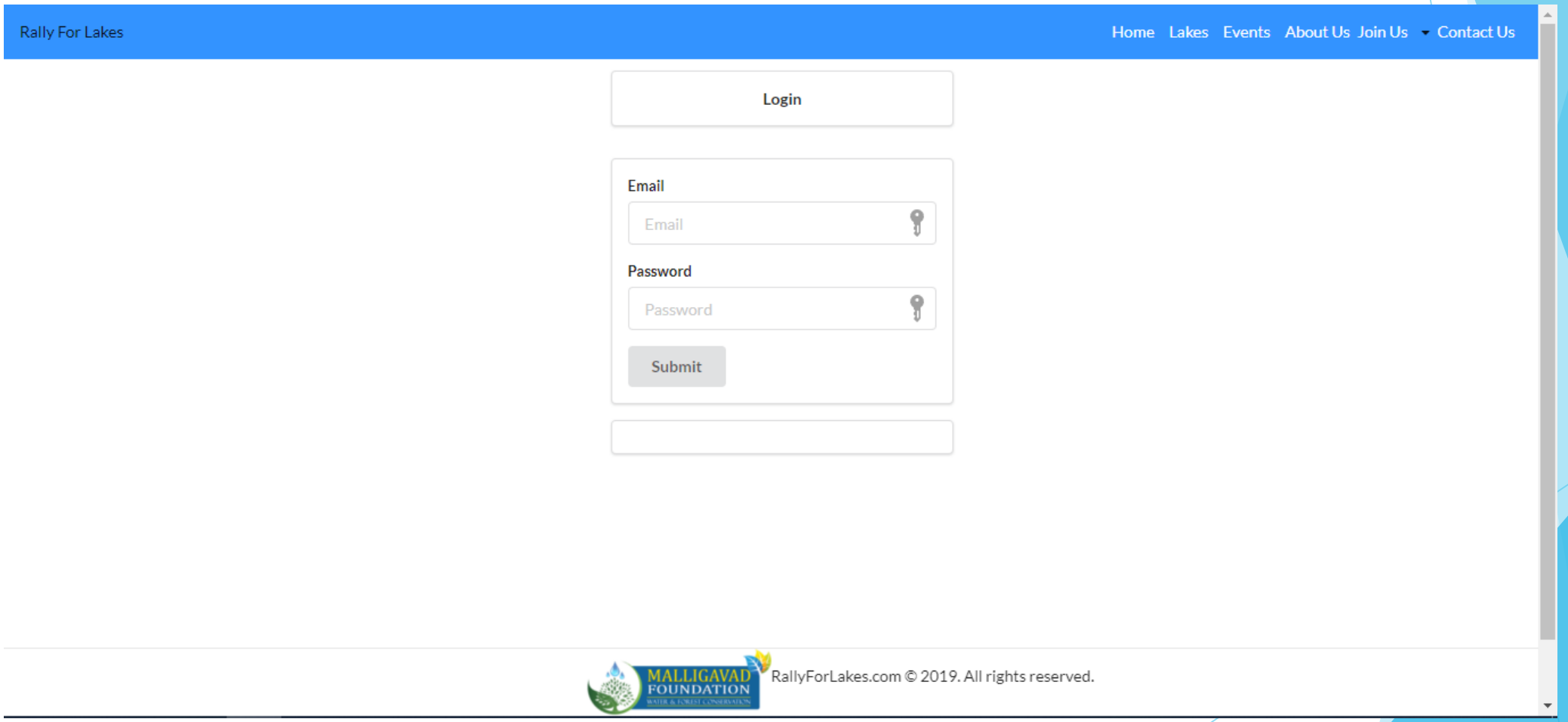
SCREENSHOTS



TESTING

Test Case ID	1	Test Case Description	Test the admin login functionality		
Created By	team	Reviewed By	Prof Santosh Katti		
QA Tester's Log	Review comments from Bill incorprate in version 2.1				
Tester's Name	team	Date Tested	18-Nov-2019	Test Case (Pass/Fail/Not	Pass

S #	Prerequisites:
1	Access to Browser
2	
3	
4	

S #	Test Data
1	Userid = admin@gmail.com
2	Pass = password
3	
4	

Test Scenario: Verify on entering valid userid and password, the customer can login

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Navigate to http://rallyforlakes.com/login	Site should open	As Expected	Pass
2	Enter Userid & Password	Credential can be entered	As Expected	Pass
3	Click Submit	Cutomer is logged in	As Expected	Pass
4	enters userid & password	enters wrong credentials	error	fail

CONCLUSION

- The project presents the implementation of a web application that provides information of lakes to the general public.
- It provides a platform for people who are interested in lake rejuvenation to come together and work on it.
- It also provides the users to bring forth their queries related to lakes to the organization that is working on improving the lakes.
- All these features are beneficial in lending a hand to the organization with their on the lake rejuvenation process.

FUTURE ENHANCEMENT

- The website can give information about the various flora and fauna that are in and around the lakes.
- The website can allow the registered volunteers and corporates to post blogs with admin’s approval.
- The website can include a map with zone wise location markers of all the lakes.
- The website can be extended to include information of lakes across multiple states.

BIBLIOGRAPHY

- http://www.savelakes.com/
- https://reactjs.org/docs/rendering-elements.html
- https://nodejs.org/en/docs/guides/getting-started-guide/
- https://docs.atlas.mongodb.com/getting-started/

THANK YOU