SLIIT UNI
THE KNOWLEDGE UNIVERSITY

BSc (Hons) in Information Technology

Specializing in Software Engineering

Year 3 - 2021

SE3040 – Application Frameworks

Group Project

Technical Report

Cord Nerds

2021S1_REG_WD_13

Conference Management Tool

Student ID	Name
IT19107110	VIKNATHARSHAN.N
IT19119786	SIVARAJAH. K
IT19123400	SOUJANYAAH.K
IT19047102	SIVASHANKAR.S

Repository Link: https://github.com/IT19107110/ConferenceManagement

---For Evaluators' use only---

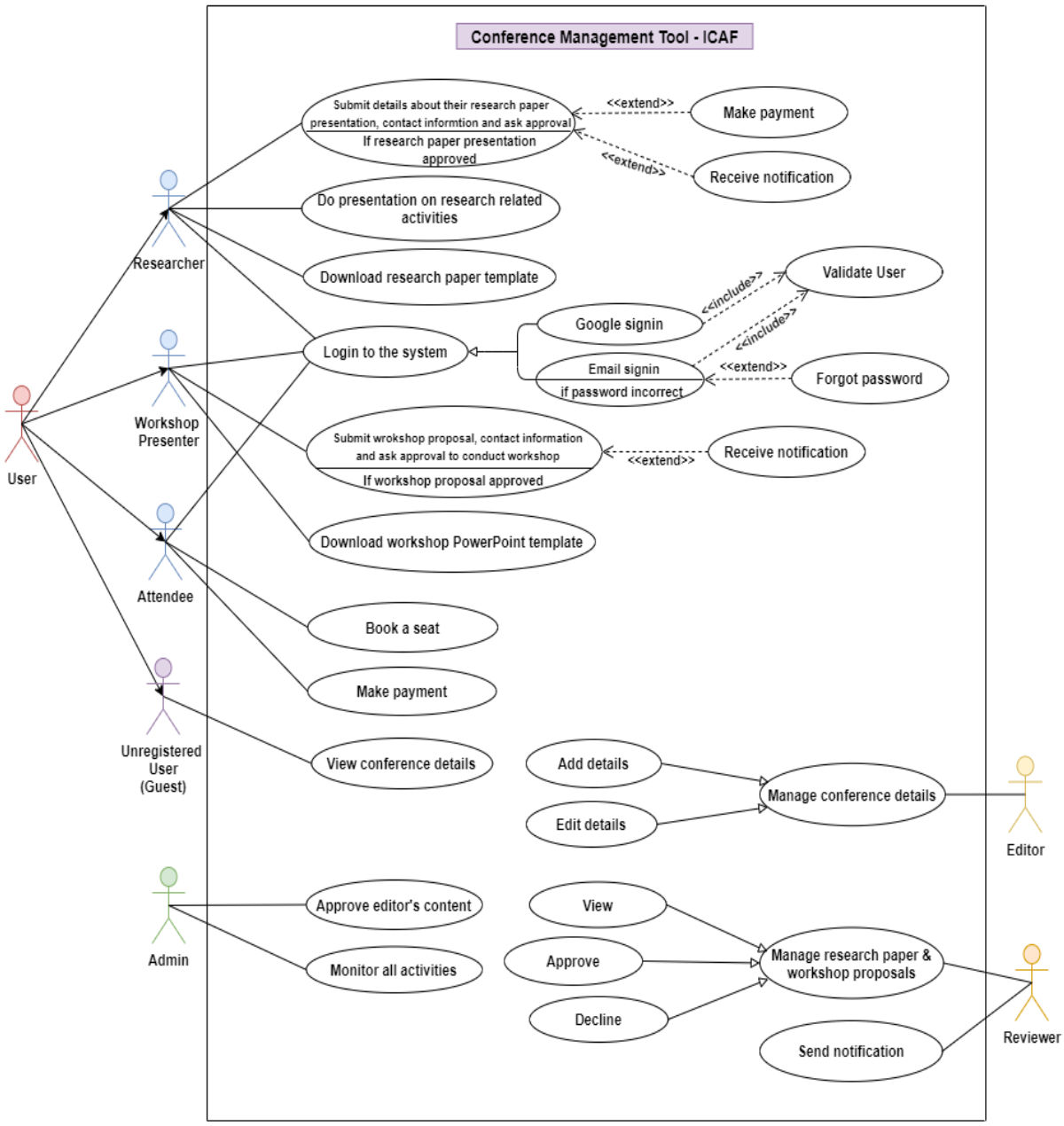
Evaluator's Name:

Comments:

Brief Description of The Functionalities

We have developed a web application to manage the conference organized by SLIIT in the name of “International Conference on Application Frameworks”. This system consists of 4 main roles such as admin, editor, reviewer & user. Any user will be able to view conference details as a guest but only the registered users will be able to book a seat, conduct workshops or do a presentation on their research related activities. The user can register using Google Sign in or by providing valid email and password (minimum 8 characters long, should be a combination of lowercase, uppercase, numbers and special characters). Admin, editors and reviewers will have their special and unique login credentials to access their user profiles and the site. Once registered they will be able to book a seat (Attendee), Submit details about their research project (Researcher) or ask approval to conduct a workshop during the Conference (Workshop presenter). Attendees need to pay upfront, according to their way of participation which can be either physically or virtually meanwhile, Researcher need to pay only when their request for their presentation is approved (they will be notified on website and through email). However, workshop presenter doesn’t have to pay to conduct a workshop. Researchers and workshop presenters can download the required templates for their submissions from the website. When these requests are submitted, the editor will be able to add the approved requests & edit the conference details. However, they need the admin to approve their content before it’s displayed on the site. Moreover, reviewers should be able to view, approve or decline the research papers or workshop proposals that has been submitted on the site.

Use Case Diagram



React Component Tree

User Side

1. HomePage
    1. NavBar
        1. ButtonCollection
            1. btnBook

        2.LoginSignupModel

            1. ButtonCollection

                1.btnLoginSignup

        3. LoginModel

            1.LoginForm

                1.btnGoogleSignin

                2.EditUserMail

                3.EditPassword

                4.btnLogin

                5.btnSignup

        4.SignupModel

            1.SignupForm

                1.btnGoogleSignup

                2.EditUserMail

                3.EditPassword

                4.btnSignup

                5.btnLogin

5.WorkshopsModel

1.ButtonCollection

1.btnNewWorkshop

2.btnViewDetails

6.NewWorkshopsModel

1.NewWorkshopsForm

1.RadioButton

2.Text_Field

3.btnDownloadTemplates

4.Date_Picker

5.Time_Picker

2.btnSubmitForm

7.ResearchModel

1.ButtonCollection

1.btnNewResearch

2.btnViewDetails

8.NewResearchModel

1.NewResearchForm

1.ButtonCollection

1.RadioButton

2.Text_Field

3.Date_Picker

4.Time_Picker

5.btnImportResearchPaper

2.btnSubmitForm

9. AboutModel

10.ProfileModel

1.EditFirstName

2.EditLastName

3.EditContactDetails

4.btnUpdateInfo

Admin Side

1.HomePage

1.NavBar

1.LoginSignupModel

1. ButtonCollection

1.btnLoginSignup

2. LoginModel

1.LoginForm

1.btnGoogleSignin

2.EditUserMail

3.EditPassword

4.btnLogin

5.btnSignup

3.SignupModel

1.SignupForm

1.btnGoogleSignup

2.EditUserMail

3.EditPassword

4.btnSignup

5.btnLogin

4.AdminModel

1.ButtonCollection

1.btnApprove

5.EditorModel

1.ConferenceDetailsForm

1.ButtonCollection

1.RadioButton

2.btnAddDetails

3.btnEditDetails

2.Text_Field

3.Date_Picker

6.ReviewerModel

1.ButtonCollection

1.btnApprove

2.btnDecline

Usage of Rest API

- Workshop API

http://localhost:3000/workshops

```
// GET all workshops
```

http://localhost:3000/workshops/post

```
// POST new workshop to database
```

http://localhost:3000/workshops/:id

```
// GET workshops by confId
```

http://localhost:3000/workshops/email/:email

```
 // GET workshop associated with user's email
```

http://localhost:3000/workshops/update/:id

```
// PUT existing workshop
```

http://localhost:3000/workshops/delete/:id

```
// DELETE workshop
```

- Research Paper API

http://localhost:3000/researchpaper

```
//GET all Research Paper
```

http://localhost:3000/researchpaper/post

```
//POST new researchpaper to database
```

http://localhost:3000/researchpaper/:id

```
//GET researchpaper by confId
```

http://localhost:3000/researchpaper/email/:email

```
//GET researchpaper associated with user's email
```

http://localhost:3000/researchpaper/update/:id

```
//PUT existing researchpaper
```

http://localhost:3000/researchpaper/delete/:id

```
//DELETE researchpaper
```

- User API

http://localhost:3000/user

```
// GET profile information
```

http://localhost:3000/user/:email

```
// GET user profile by ID
```

http://localhost:3000/user/update/:id

```
// PUT user profile
```

- Editor API

http://localhost:3000/editor/conference

```
// GET all conference
```

http://localhost:3000/editor/conference/post

```
// POST conference to the home
```

http://localhost:3000/editor/conference/update/:id

```
//PUT conference details
```

- Attendee API

http://localhost:3000/attendee

```
// FIND all attendees
```

http://localhost:3000/attendee/post

```
// CREATE new attendee in database
```

http://localhost:3000/attendee/conference/:id

```
// FIND attendees by confId
```

http://localhost:3000/attendee/:id

```
// FIND attendee by ID
```

http://localhost:3000/attendee/workshop/:email

```
// FIND by attendee email
```

http://localhost:3000/attendee/workshop/:id/:email

```
// FIND by confId and attendee email to update
```

http://localhost:3000/attendee/workshop/update/:id/:email

```
// UPDATE attendee by confId and email
```

http://localhost:3000/attendee/workshop/update/:id

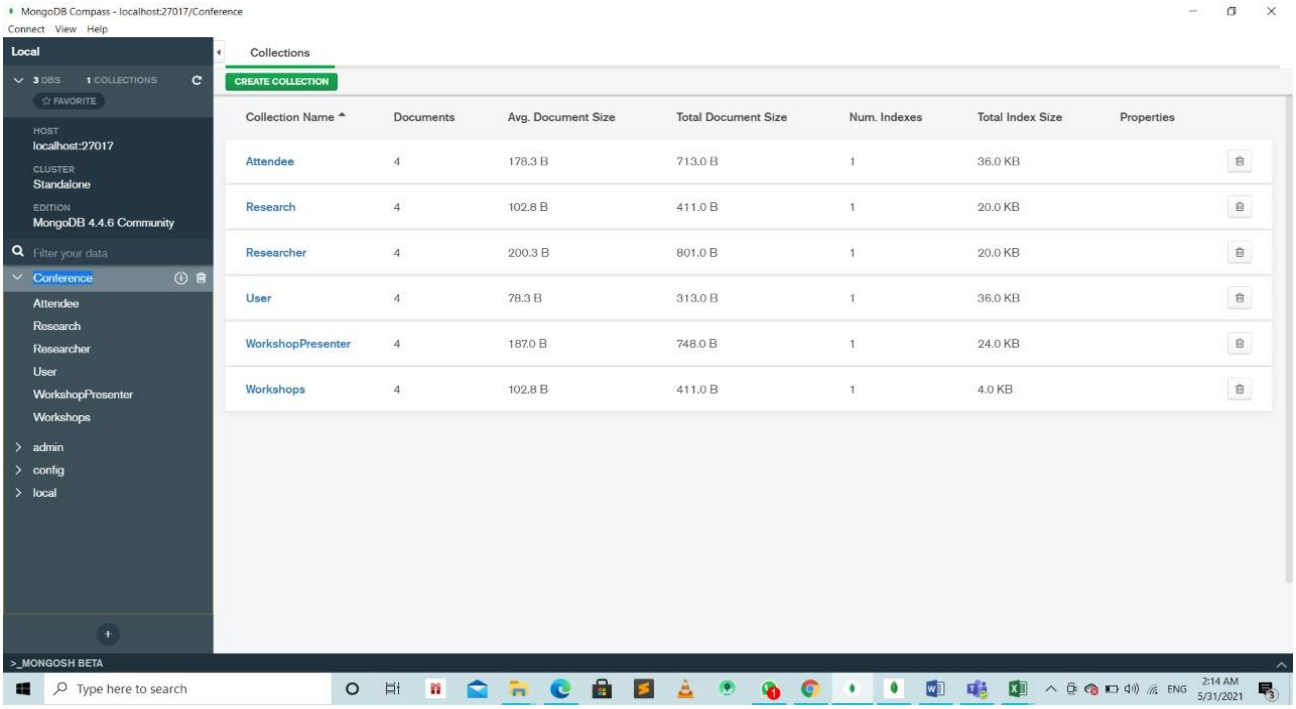
```
// UPDATE attendee by ID
```

http://localhost:3000/attendee/workshop/delete/:id/:email

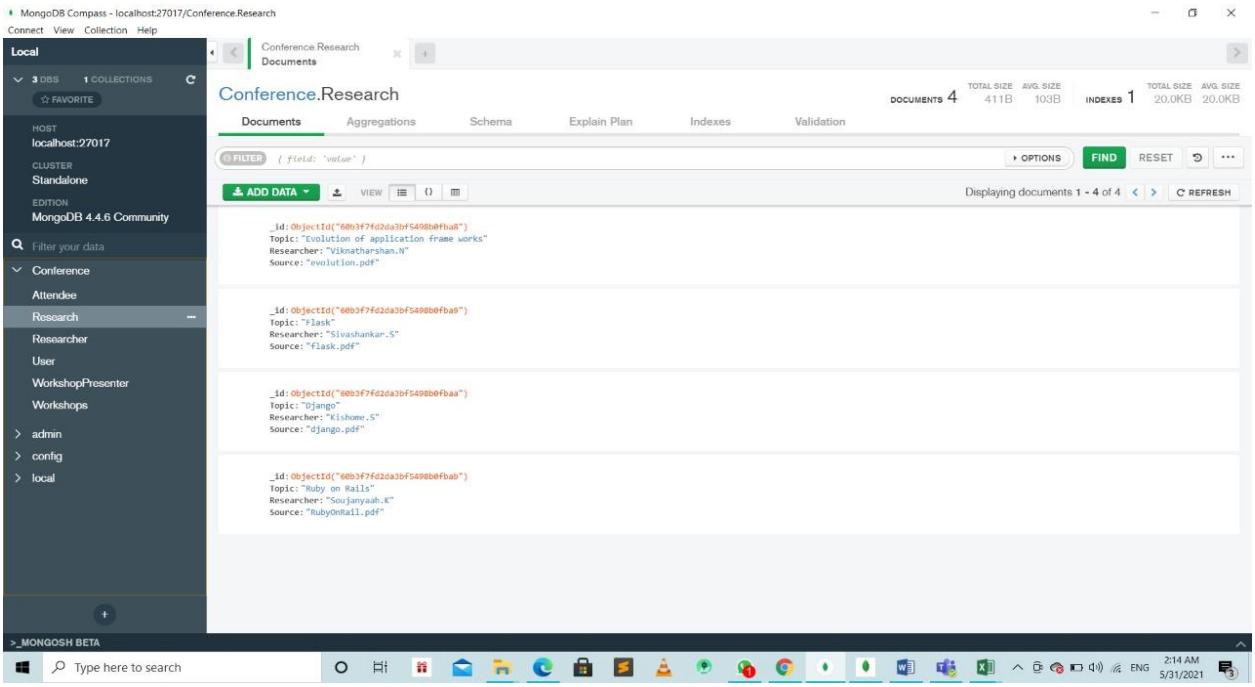
```
// DELETE attendee
```

MongoDB collections

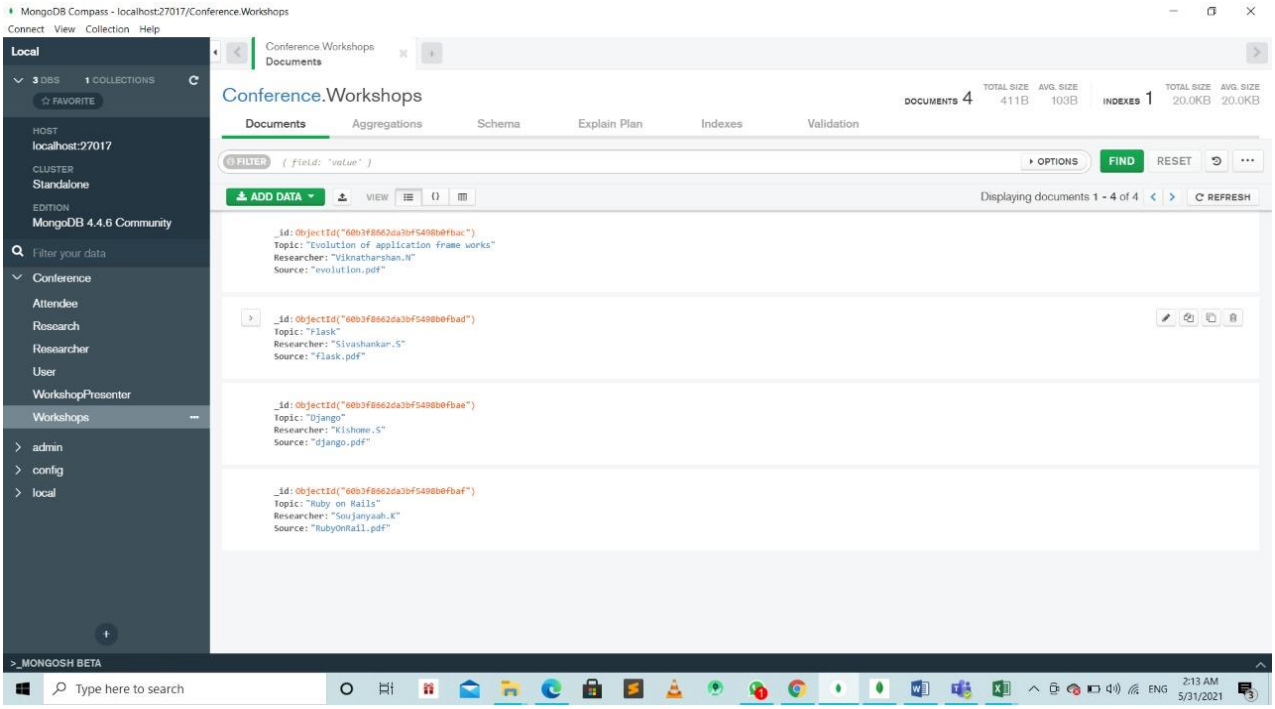
Collections from Conference Database



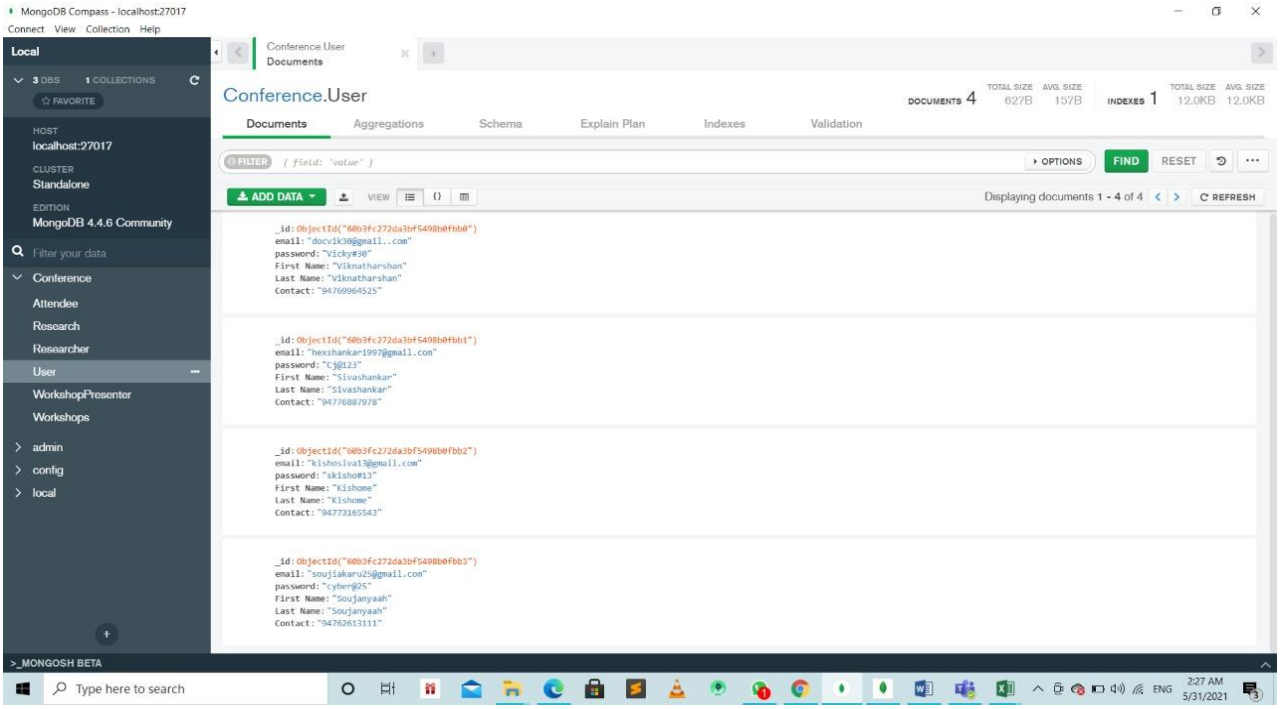
Research Collection



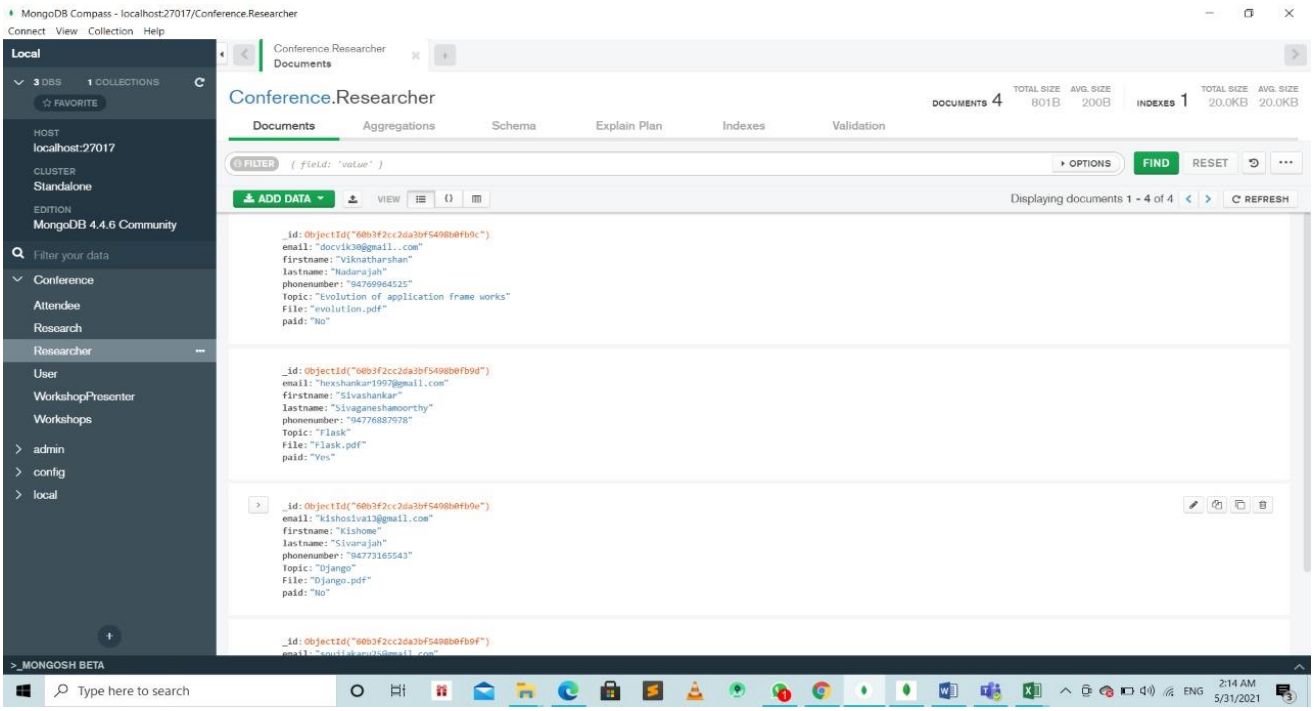
Workshops Collection



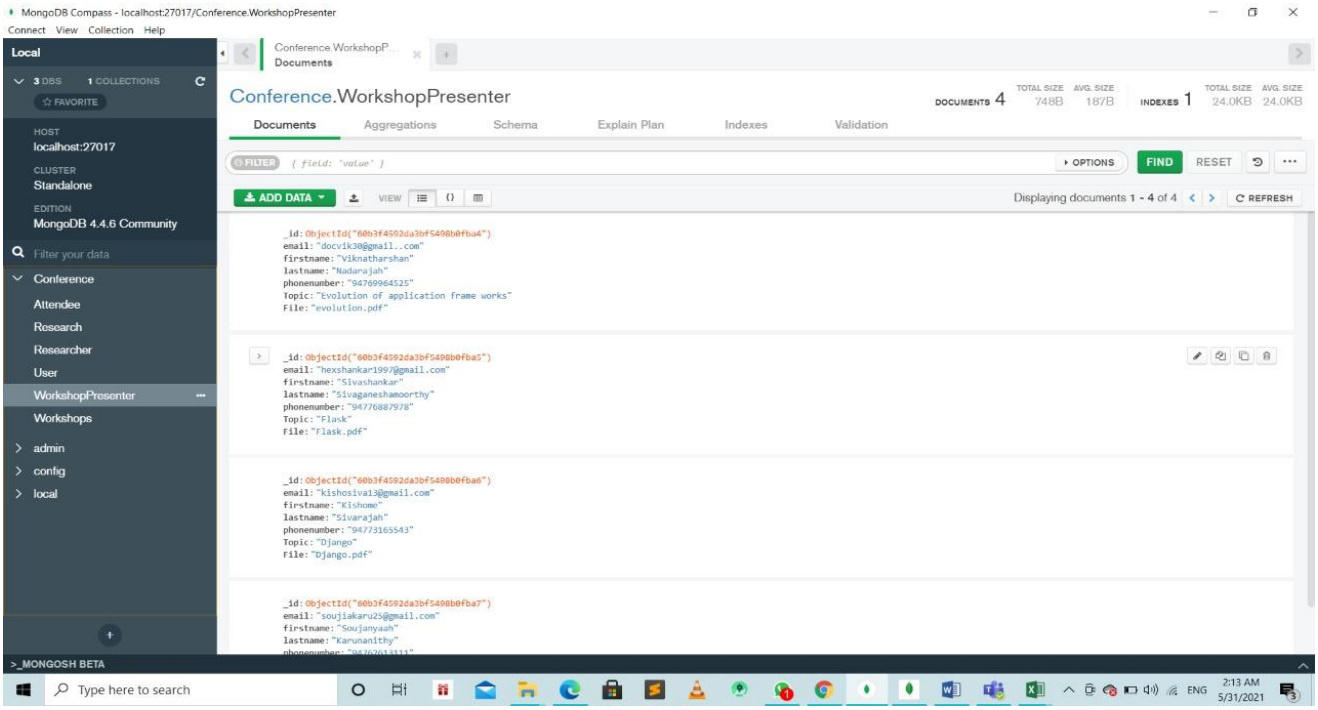
User Collection



Researcher Collection



WorkshopPresenter Collection



Test Cases

Testing Function: Functionality of checking validation of registration

Test ID	Testing Function	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)
CN01	Inserting Data	_id:60b3fc272da3bf5498b0fbb1 email: "hexshankar1997@gmail.com" password: "Cj@12345" First Name: "Sivashankar" Last Name: "Sivashankar" Contact: "94776887989"	Registered successfully	Registered successfully	Pass
CN02	Inserting Data	_id:60b3fc272da3bf5498b0fbb1 email: password: "Cj@12345" First Name: "Sivashankar" Last Name: "Sivashankar" Contact: "94776887989"	Email field cannot be empty	Email field cannot be empty	Pass
CN03	Inserting Data	_id:60b3fc272da3bf5498b0fbb1 email: "hexshankar1997@gmail.com" password: "Cj@123" First Name: "Sivashankar" Last Name: "Sivashankar" Contact: "94776887989"	Password must contain minimum 8 characters (Lower case, upper case, number, special characters)	Password must contain minimum 8 characters (Lower case, upper case, number, special characters)	Pass

Testing Function: Functionality of adding, updating and deleting data of research paper

Test ID	Testing Function	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)
CN04	Inserting Data	_id: 60b3f8662da3bf5498b0fbae Topic: "Django" Researcher: "Kishome.S" Source: "django.pdf"	Research paper details added successfully	Research paper details added successfully	Pass
CN05	Inserting Data	_id: 60b3f8662da3bf5498b0fbae Topic: Researcher: "Kishome.S" Source: "django.pdf"	Topic field cannot be empty	Topic field cannot be empty	Pass
CN06	Updating Data	_id: 60b3f8662da3bf5498b0fbae Topic: "Django" Researcher: "Kisho" Source: "django.pdf"	Research paper details updated successfully	Research paper details updated successfully	Pass
CN07	Deleting Data	_id: 60b3f8662da3bf5498b0fbae	Research paper details deleted successfully	Research paper details deleted successfully	Pass

Testing Function: Functionality of adding, updating and deleting data of workshop

Test ID	Testing Function	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)
CN08	Inserting Data	_id:60b3f7fd2da3bf5498b0fbab Topic: "Ruby on Rails" Researcher: "Soujanyaah.K" Source: "RubyOnRail.pdf"	Workshop details added successfully	Workshop details added successfully	Pass
CN09	Inserting Data	_id:60b3f7fd2da3bf5498b0fbab Topic: Researcher: "Soujanyaah.K" Source: "RubyOnRail.pdf"	Topic field cannot be empty	Topic field cannot be empty	Pass
CN10	Updating Data	_id:60b3f7fd2da3bf5498b0fbab Topic: "Ruby on Rails" Researcher: "Soujia" Source: "RubyOnRail.pdf"	Workshop details updated successfully	Workshop details updated successfully	Pass
CN11	Deleting Data	_id:60b3f7fd2da3bf5498b0fbab	Workshop details deleted successfully	Workshop details deleted successfully	Pass

Testing Function: Functionality of adding, updating and delete data of Attendee

Test ID	Testing Function	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)
CN12	Inserting Data	_id: 60b3e8c82da3bf5498b0fb9b email:"soujiakaru25@gmail.com" firstname: "Soujanyaah" lastname: "Karunanithy" phonenumber: "94762613111" participation: "Physical" paid: "No"	Attendee details added successfully	Attendee details added successfully	Pass
CN13	Updating Data	_id: 60b3e8c82da3bf5498b0fb9b email:"soujiakaru25@gmail.com" firstname: "Soujia" lastname: "Karu" phonenumber: "94762613111" participation: "Physical" paid: "No"	Attendee details updated successfully	Attendee details updated successfully	Pass
CN14	Deleting Data	_id: 60b3e8c82da3bf5498b0fb9b	Attendee details deleted successfully	Attendee details deleted successfully	Pass

Testing Function: Functionality of updating data of user

Test ID	Testing Function	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)
CN15	Updating Data	_id:60b3fc272da3bf5498b0fbb1 email: "hexshankar1997@gmail.com" password: "Cj@12345" First Name: "Sivashankar" Last Name: "Sivashankar" Contact: "94776887978"	Profile info updated successfully	Profile info updated successfully	Pass