

### Sri Lanka Institute of Information Technology

# B.Sc. Honors Degree in Information Technology Specialized in Software Engineering

Final Examination Year 3, Semester 1 (2021)

SE3040 – Application Frameworks

Group Project

Technical Report

Group ID: 2021S1\_REG\_WD\_17

Group Name: Light Waves

 $\textbf{Repository Link:} \ \underline{\textbf{https://github.com/TharushiNDewangi/AF-CFA.git}}$ 

Student ID	Student Name
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### For Evaluations:

Marks Allocation	Leader	Member 2	Member 3	Member 4	
User Interfaces look professional and consistency –					
15					
Features are comprehensive and user friendly – 15					
Implementation of the RESTful web services – 15					
Implementing database and Mongo collections – 10					
Implementation of unit tests – 10					
Coding Standards and quality – 5					
Deployed in the cloud – 5					
Maintaining online git repository – 5					
Technical Report (Group Mark) – 5					
User guide (Group Mark) – 5					
Presentation – 10					

Comments:

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# Brief description of all the functions (member wise) IT19123196

### **User Handling**

There are 4 main user roles as admin, editor, reviewer and user but only user can register using registration form and user can register as a researcher, workshop presentations and attendee .in registration form user can select their user roles. users can access separate tasks related their user roles.

Only users can access and submit research papers, conduct workshops and present research related activities it is only visible reviewers and reviewer can approve these details then it shows all registered users

Editors can add conference details and edit. these conference details only visible to admin in admin dashboard and if admin approve conference details it visible all registered or non registered users These things control using middleware functions.

### Approve workshops and research related activities

When User submit their content it is not visible any user in application it only visible reviewer and they can approve or reject it. if reviewer approve workshops and research papers they are visible to all registered users and send mail to content posted user. if it is rejected, it is not visible any where in the application and send mail to user says 'update and re submit your content'.

### IT19159072

### Add Research related activities

Only researcher who have access to submit research papers and research related activities. When researcher registered to the system the research paper uploaded alongside the contact information. . Research paper presenters must pay if their papers approved to present them at the conference . If researcher did the payment he will get email that successfully received.

### **Add Workshops**

Only workshop conductor who have access to submit workshop proposals and When workshop conductor registered to the system a proposal containing all the details about the workshop uploaded alongside the contact information. Workshop conductors don't have to pay.

### View Research related activities

All the submitted research papers and research related activities can view by reviewer. Research papers should approve or rejected by reviewer. Whenever reviewer approve research papers then research papers can view to the user. Only the approve papers can be view and also researcher get a email .Reviewers can view paper uploads in separate page. Researcher can download the research papers.

### **View Workshops**

All the submitted workshop proposal can view by reviewer. Workshop proposals should approve or rejected by reviewer. Whenever reviewer approve Workshop proposals then Workshop proposals can view to the user approve or reject the Workshop proposals also researcher get a email .Reviewers can view workshop proposal uploads in separate page. Workshop conductor can download the workshop proposal.

#### IT19129518

#### **Add Conference**

Editor should log in using user credential which were given by Admin. An editor's roll is managing conferences. Only Editor has permission to add conferences to system and edit conferences.

#### **View Conferences**

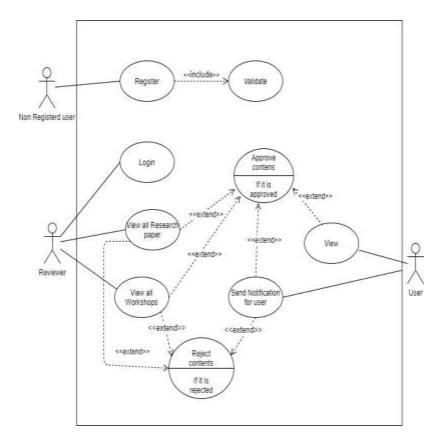
After approval from admin, conferences view in conference list page to only editor and admin. After view conferences by attendees must pay if they want to register for the conference. If attendee did the payment, he will get email that successfully received.

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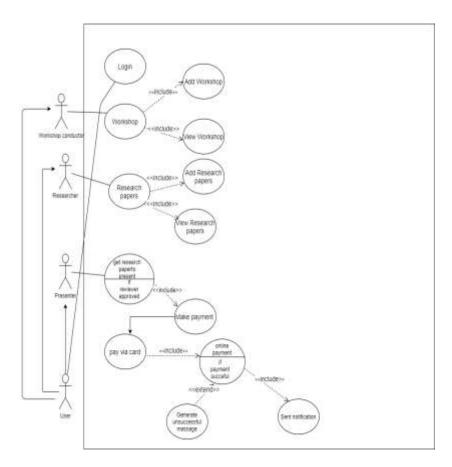
### **Approve Conferences**

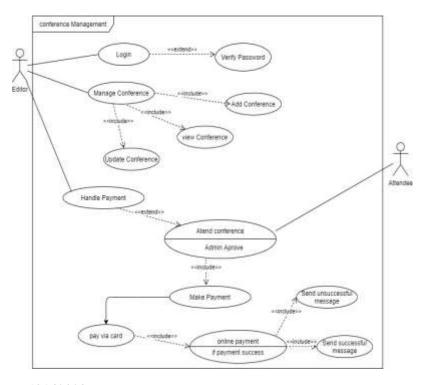
When editor submit their conferences it is not visible any user in application it only visible editor and they can approve or reject it. if editor approve conferences it is visible to all users include with nun registered users and send mail to content posted user. if it is rejected, it is not visible anywhere in the application and send mail to an editor says 'update and re submit your content'.

Use case Diagrams and the Component tree (member wise) Use case Diagrams

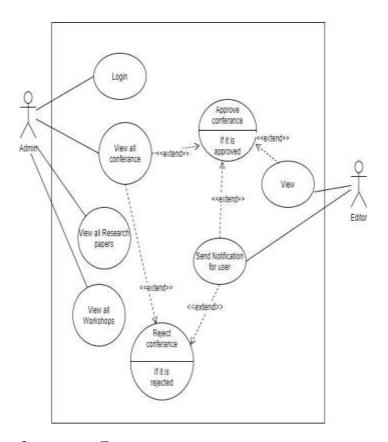


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### **Component Tree**

### IT19123196

- 1.HomePage
  - 1.Navbar
  - 2.ButtonCollection
    - 1.Signin
      - 1.Home(Registered user view)
        - 1.For Admin
  - 3.For Admin
    - 1.Button Collection
      - 1.Approve Research
      - 2.Approve workshop

### IT19159072

1.HomePage

1.Navbar 2.ButtonCollection 1.Signin 1.Home(Registered user view) 1.For Authors 2.Workshops 3.For Authors 1.Button Collection 1.Add Research papers 2.ReserchPapers 1.Pay 2.Download 4. Workshops 1.Button Collection 1.Add Workshops 2.Workshops 1.Download IT19129518 1.HomePage 1.Navbar 2.ButtonCollection 1.Signin 1.Home(Registered user view) 1. Conferences 3.Conferences 1.Button Collection 1.Add Conferences 2. View Conferences 1.pay

3.Edit Conference

- 1.HomePage
  - 1.Navbar
  - 2.ButtonCollection
    - 1.Signin
      - 1.Home(Registered user view)
        - 1.For Admin
  - 3.For Admin
    - 1.Button Collection
      - 1. Approve Conference

### Usage of Rest APIs (member wise)

Rest API is developed using React.it runs on port 8065.Rest API has admin, editor, reviewer ,user , Research papers, workshops, conference details , approve details, payment CRUD operations and send email notifications as well .Rest API has access to mongoose database and web client could access mongoose through this Rest API. This is research paper route. we use that way to implements all REST API. we give access permission like that way in route

End point	Description	
http://localhost:8065/api/signup	User registration	
http://localhost:8065/api/signin	User Login	
http://localhost:8065/api/signout	User Sign out	
http://localhost:8065/api/approvep/	View all research papers in Reviewer Dashboard	
http://localhost:8065/api/paper/approveper/:_id	Approve research paper	
http://localhost:8065/api/paper/rejectpaper/:_id	Reject Research paper	
http://localhost:8065/api/approveworkshops	View all Workshop in Reviewer Dashboard	
http://localhost:8065/api/approveworkshops/approve/:_id	Approve Workshop	
http://localhost:8065/api/approveworkshops/reject/:_id	Reject Workshop	

endpoint	description	
http://localhost:8065/api/paper/create	Submit papers	
http://localhost:8065/api/allpper	Get all papers	
http://localhost:8065/api/papers/:paperid	Get paper by id	
http://localhost:8065/api/workshop/create	Submit workshop	
http://localhost:8065/api/workshops	Get all workshops	
http://localhost:8065/api/workshops/:workshopid	Get workshops by id	
http://localhost:8065/api/payment/create	Make payment	

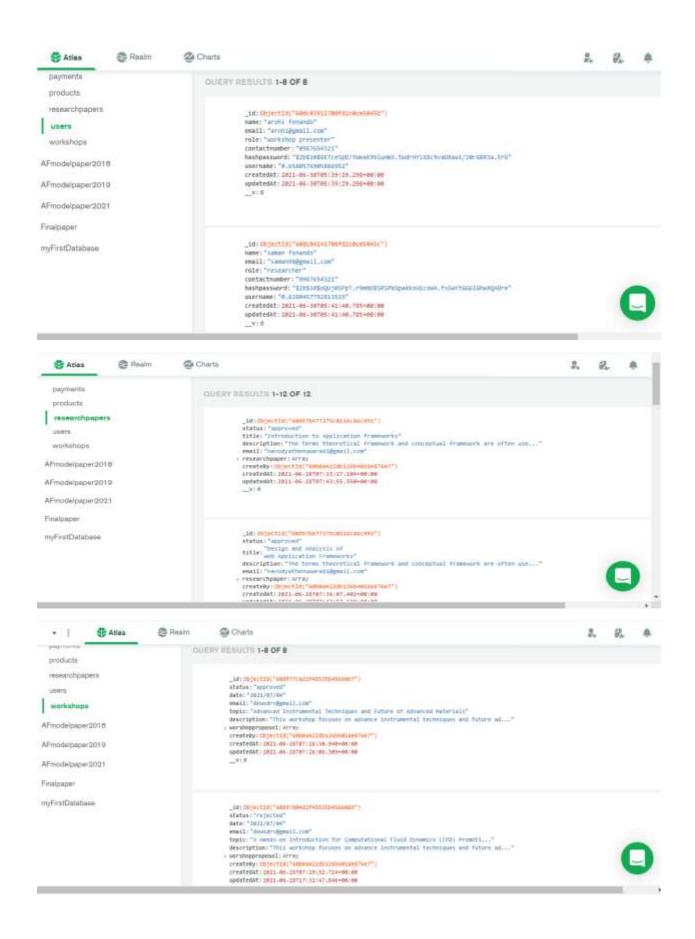
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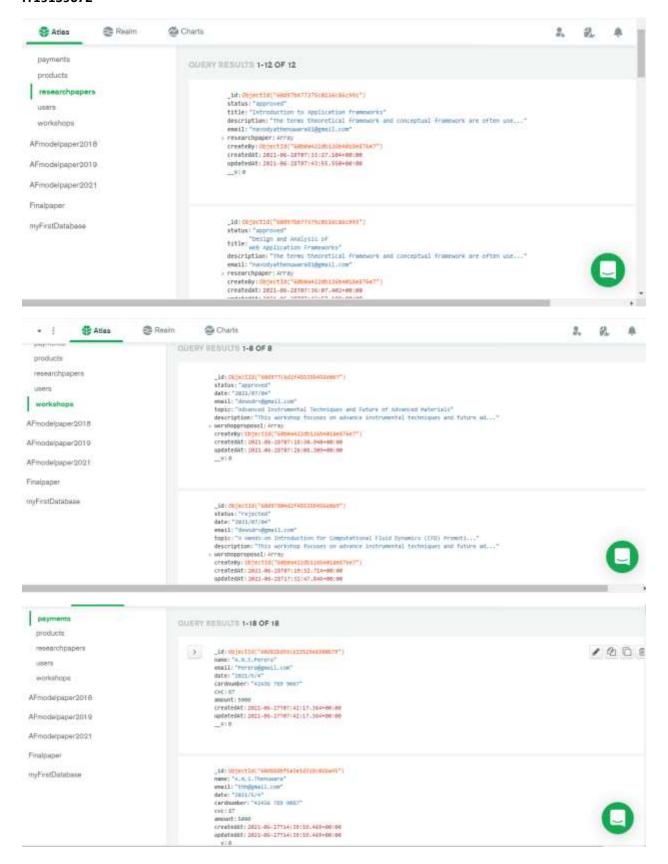
End point	Description	
http://localhost:8065/api/conference/addconference	Editor add Conference	
http://localhost:8065/api/conference/approve/getconference	View all approve conference	
http://localhost:8065/api/conference/getconference	View All conference	
http://localhost:8065/api/updateconference/:_id	Update conference	
http://localhost:8065/api/payment/conference/create	Make payment	

### IT19140308

endpoint	description
http://localhost:8065/api/conference/getapproveconference	View all conference
http://localhost:8065/api/conference/approveconference/_:id	Admin approve conference
http://localhost:8065/api/conference/rejectconference/_:id	Admin reject conference

Screen shots of Mongo DB Collections (member wise) IT19123196





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## Test Cases (member wise)

approvepapers.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");
describe("Sample Test", () => {
    it("should test that true === true", () => {
      expect(true).toBe(true);
    });
 });
  test("test Approve reseach papers", async () => {
    const result = await supertest(app)
    put('/api/paper/approveper/:_id')
      .send({
        status: "approved"
      });
    expect(result.statusCode).toBe(201);
  });
 test("test Reject reseach papers", async () => {
    const result = await supertest(app)
    put('/api/paper/rejectpaper/:_id')
      .send({
        status: "rejected"
      });
    expect(result.statusCode).toBe(201);
  });
test("test approve reseachpapers ", async () => {
    const result = await supertest(app)
      .get("/api/approvep/")
      .send({});
    expect(result.statusCode).toBe(200);
  });
```

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");
describe("Sample Test", () => {
    it("should test that true === true", () => {
      expect(true).toBe(true);
    });
  });
  test("test Approve Workshop", async () => {
    const result = await supertest(app)
    put('/api/approveworkshops/approve/:_id')
      .send({
        status: "approved"
      });
    expect(result.statusCode).toBe(201);
  });
  test("test Reject Workshop", async () => {
    const result = await supertest(app)
    put('/api/approveworkshops/reject/:_id')
      .send({
        status: "rejected"
      });
    expect(result.statusCode).toBe(201);
  });
test("test approve Workshop ", async () => {
    const result = await supertest(app)
      .get("/api/approveworkshops")
      .send({});
    expect(result.statusCode).toBe(200);
  });
```

### User.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");

describe("Sample Test", () => {
   it("should test that true === true", () => {
```

```
expect(true).toBe(true);
    });
  });
test("test register users without relevent data", async () => {
    const result = await supertest(app)
      .post("/api/signup")
      .send({});
   expect(result.statusCode).toBe(500);
  });
  test("test createPapers controller with relevent data", async () => {
    const result = await supertest(app)
      .post("/api/signup")
      .send({
        name: "saman perera",
        email: "saman98@gmail.com",
        password: "saman98",
        role: "researcher",
        contactnumber: "0711339887"
      });
    expect(result.statusCode).toBe(201);
 });
test("test getPapers controller ", async () => {
    const result = await supertest(app)
      .get("/api/allpper/")
      .send({});
    expect(result.statusCode).toBe(200);
  });
```

### Papers.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");

describe("Sample Test", () => {
   it("should test that true === true", () => {
      expect(true).toBe(true);
   });
```

```
});
test("test add papers without relevent data", async () => {
    const result = await supertest(app)
      .post("/api/paper/create")
      .send({});
   expect(result.statusCode).toBe(500);
 });
 test("test createPapers controller with relevent data", async () => {
    const result = await supertest(app)
      .post("/api/paper/create")
      .send({
       title: "Test Test",
        description: "testCat",
        email: "testCat-01",
        status:"testCat-02",
       // researchpaper:"testCat-03"
      });
   expect(result.statusCode).toBe(201);
 });
test("test getPapers controller ", async () => {
   const result = await supertest(app)
      .get("/api/allpper/")
      .send({});
   expect(result.statusCode).toBe(200);
  });
```

### Workshops.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");

describe("Sample Test", () => {
    it("should test that true === true", () => {
        expect(true).toBe(true);
    });
});

test("test addworkshops without relevent data", async () => {
    const result = await supertest(app)
        .post("/api/workshop/create")
```

```
.send({});
   expect(result.statusCode).toBe(500);
 });
 test("test createWorkshops controller with relevent data", async () => {
    const result = await supertest(app)
      .post("/api/workshop/create")
      .send({
       date: "Test Test",
       email: "testCat",
       topic: "testCat-01",
      });
   expect(result.statusCode).toBe(201);
 });
test("test getWorkshops controller ", async () => {
   const result = await supertest(app)
      .get("/workshops")
      .send({});
   expect(result.statusCode).toBe(200);
  });
```

### Reseachpaperpayment.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");
describe("Sample Test", () => {
    it("should test that true === true", () => {
      expect(true).toBe(true);
    });
 });
test("test add payment without relevent data", async () => {
    const result = await supertest(app)
      .post("api/payment/create")
      .send({});
    expect(result.statusCode).toBe(500);
 });
 test("test addPayment controller with relevent data", async () => {
   const result = await supertest(app)
```

```
.post("api/payment/create")
    .send({
        name: "Test Test",
        date: "testCat",
        email: "testCat-01",

        });
    expect(result.statusCode).toBe(201);
});
```

### Conference.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");
describe("Sample Test", () => {
    it("should test that true === true", () => {
      expect(true).toBe(true);
    });
  });
test("test add conference without relevent data", async () => {
    const result = await supertest(app)
      .post("/api/conference/addconference")
      .send({});
    expect(result.statusCode).toBe(500);
  });
  test("test create conference controller with relevent data", async () => {
    const result = await supertest(app)
      .post("/api/conference/addconference")
      .send({
        title: "Test Test",
        description: "testCat",
        email: "testCat-01",
        status: "testCat-02",
        date:"testCat-03"
      });
```

```
expect(result.statusCode).toBe(201);
});

test("test getConference controller ", async () => {
    const result = await supertest(app)
        .get("/api/getconference")
        .send({});
    expect(result.statusCode).toBe(200);
});
```

### Conferencepayment.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");
describe("Sample Test", () => {
    it("should test that true === true", () => {
      expect(true).toBe(true);
    });
 });
test("test add payment without relevent data", async () => {
    const result = await supertest(app)
      .post("/payment/conference/create")
      .send({});
    expect(result.statusCode).toBe(500);
 });
  test("test addPayment controller with relevent data", async () => {
    const result = await supertest(app)
      .post("/payment/conference/create")
      .send({
        name: "Test Test",
        date: "testCat",
        email: "testCat-01",
      });
    expect(result.statusCode).toBe(201);
  });
```

### approveconference.test.js

```
const app = require("../server");
const mongoose = require("mongoose");
const supertest = require("supertest");
describe("Sample Test", () => {
    it("should test that true === true", () => {
      expect(true).toBe(true);
    });
 });
  test("test Approve Conference", async () => {
    const result = await supertest(app)
    put('/api/approveconference/:_id')
      .send({
        status: "approved"
      });
    expect(result.statusCode).toBe(201);
  });
  test("test Reject Conference", async () => {
    const result = await supertest(app)
    put('/api/rejectconference/:_id')
      .send({
        status: "rejected"
      });
    expect(result.statusCode).toBe(201);
 });
test("test approve Conference ", async () => {
    const result = await supertest(app)
      .get("/api/getapproveconference")
      .send({});
    expect(result.statusCode).toBe(200);
  });
```