

A
PROJECT REPORT
ON

Freelancing Site

By

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CERTIFICATE

This is to certify that the practical / term work carried out in subject
Of **Advanced Technologies** (CE - 515) and recorded in this
journal is the Bonafide work of

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1.Introduction

Freelancing Site is an online website that can be used by Freelancers and Buyers, where buyer can upload the project (task) with required details like description of project, duration days, budget, etc. Freelancer can see different type of project on site and can bid on project relevant to their category. After seeing all the bids on the project, buyer can hire one of the freelancer for their work. After Freelancer submit the work, buyer will have to complete the project from their side, then freelancer will get money. To use any of the functionalities user must have to register / login on site.

The first module is registration as buyer or freelancer. in this module buyer or freelancer can register their self on website by providing all the information. The Second module is Profile. In this module Buyer and Freelancer can see their profile and update it whenever required.

Modules Specific to buyer :- 1) Post Project – In this module buyer upload project with required details. 2) My Project – In this module buyer can see their uploaded project & manage it like seeing bids by freelancers, delete project, hire any freelancer, status etc.

Modules Specific to freelancer :- 1) Find Jobs – In this module freelancer can see all the uploaded project by buyers which are relevant to their category and bid on them. 2) My Project – In this module freelancer can see all their active or completed projects.

➤ **Tools/Technologies Used**

❖ **Technologies:**

- HTML
- CSS
- Bootstrap
- Javascript
- Typescript
- Angular
- Node Js
- Express Js
- MongoDB

❖ **Tools**

- Git
- Visual Studio Code

❖ **Platform**

- Local development server

2. Software Requirement Specifications

Users of the System :-

- + Buyer
- + Freelancer

Functional requirements :-

1. Login / Registration

R.1.1: Create New Account

Description :- If user does not have an account on website then he/she has to create an Account.

Input:- Enter details like name, email id, password, type of account (i.e. buyer or freelancer) etc... to create an account.

Output:- Redirected to Login

R.1.2: Login

Description :- User can access this website by login using email id and password.

Input:- Enter email id and password.

Output:- If email id and password are correct then all functionalities will be display, otherwise message will be display as "Invalid email id or password".

To Use Any Of the below module & functionalities user must require login.

2. Profile

R.2.1: See Profile

Description :- User can see their Profile Details like name, description, category, education, certification, profile image and update it.

R.2.1.1: Upload Profile Picture

Input:- User have to select profile picture from their computer.

Output:- Uploaded image will be display as profile picture.

R.2.1.2: Modify Personal Details

Input:- User can select and modify details.

Output:- Details will be modified.

Modules Specific To Buyers

1. Buyer's Project

R.1.1: Post Project

Description:- Buyer can post a project to hire freelancer.

Input:- Buyer have to enter all the required details like name, description, category, budget & duration of project.

Output:- Project will be uploaded.

R.1.2: Delete Project

Description :- Buyer can select any of their uploaded project and delete it.

Input :- Select Project & Press on delete button.

Output :- Project will be deleted.

2. My Project

R.2.1: See all project

Description :- Buyer can see their all uploaded projects.

Input :- Go to my project section.

Output :- All Uploaded project will be shown.

R.2.2: See all Bids for particular project.

Description :- Buyer can select one of their uploaded projects and see all the bids done by freelancers.

Input :- Select project -> go to proposals.

Output :- All bids will be shown.

R.2.3: Hire Freelancer

Description :- After Seeing all the bids, Buyer can select one of the best bids and hire that freelancer.

Input :- Select Project -> go to proposals -> hire freelancer

Output :- Freelancer will be hired & get hired status from buyer.

Remaining bids / proposals will be deleted automatically and no other freelancer can place bid on that project.

Modules Specific To Freelancers.

1. Find Jobs

R.1.1: Find Project

Description :- Freelancer can see all the uploaded projects by buyers relevant to their work category.

Input:- Go to Find Jobs.

Output:- All pending projects relevant to their work category will be displayed.

R.1.2: Place Bid

Description :- Freelancer can select one of the project and place a bid for that project with required details.

Input :- Enter bid details like bid amount, duration days, proposals.

Output :- Bid will be placed for that project.

2. My Project

R.2.1: My Project

Description:- Freelancer can see all their completed and active projects.

Input:- Go to My Projects.

Output:- List of Projects Will be displayed.

R.2.1: Deliver Work

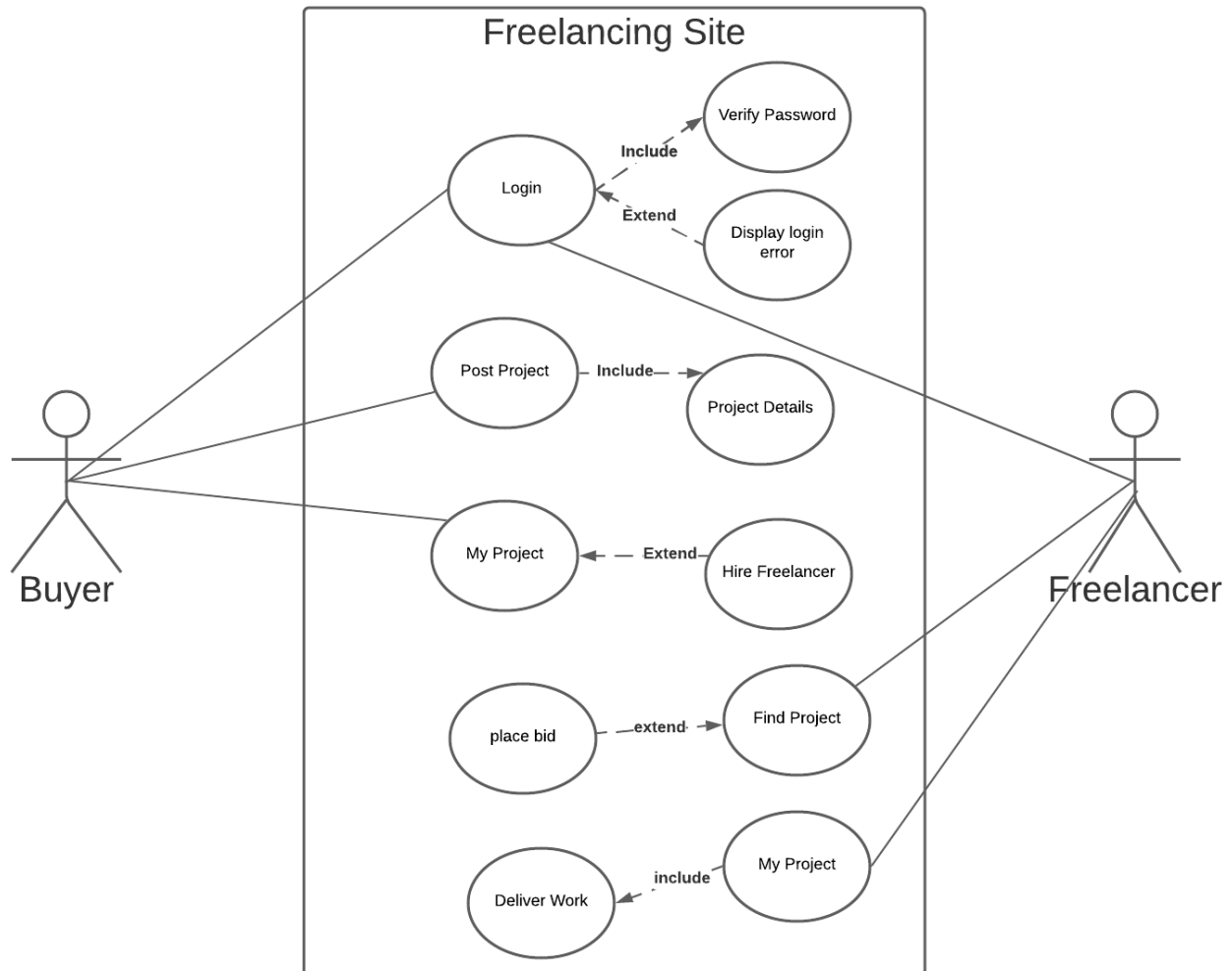
Description:- Freelancer can go to any active project and attach their work.

Input:- Attach Work Files.

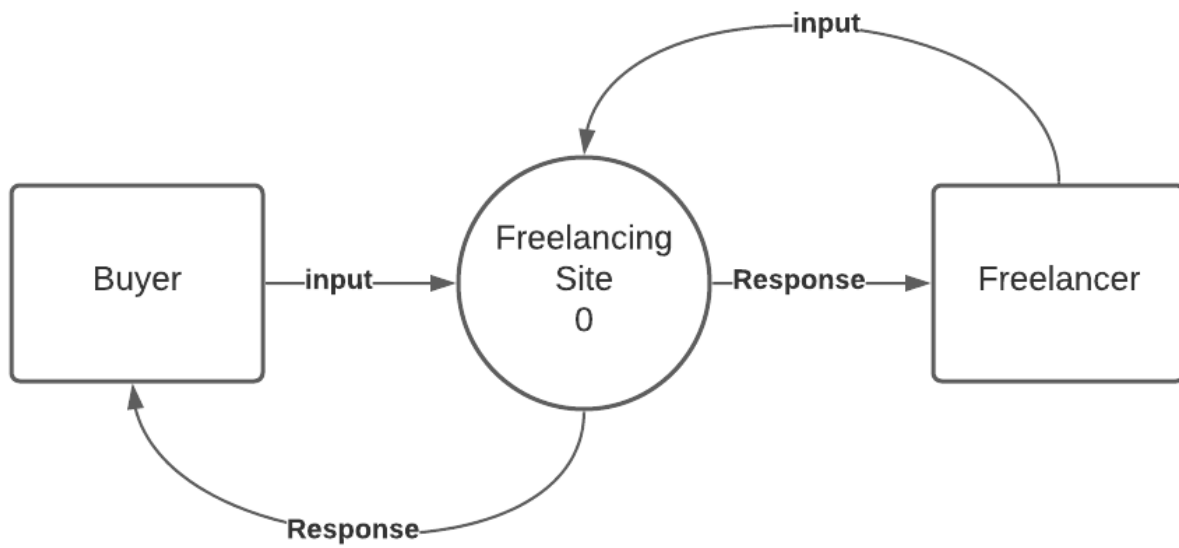
Output:- File will be uploaded.

3.Design

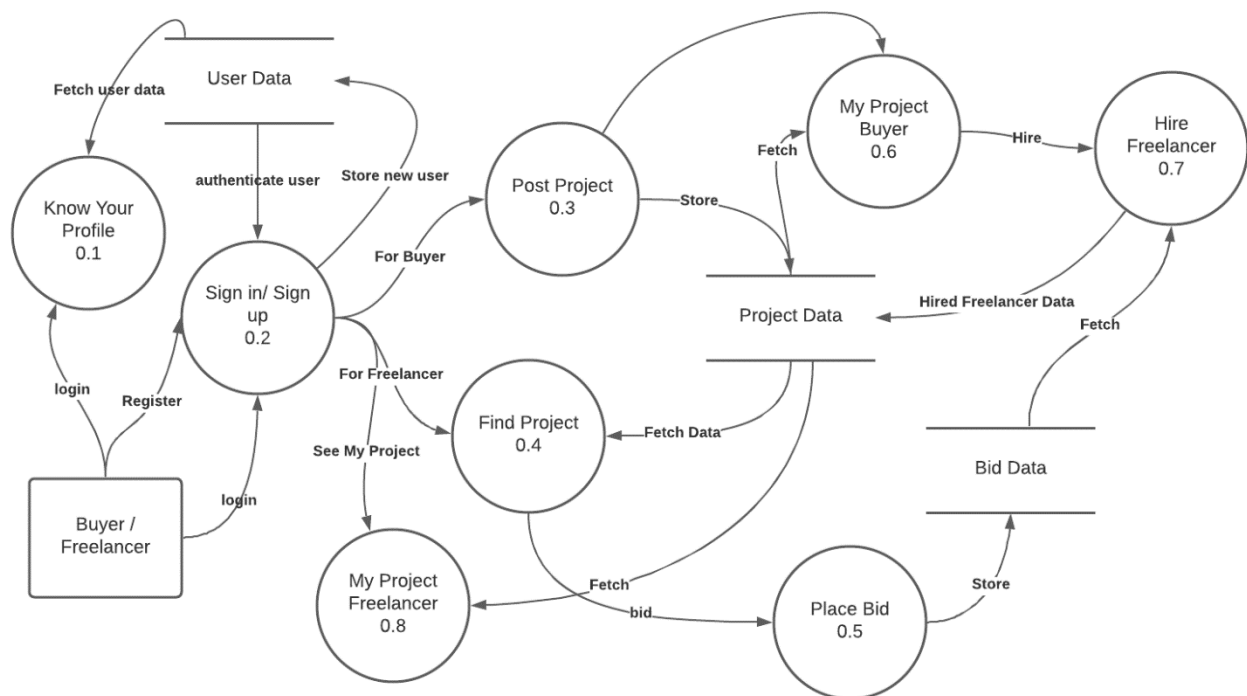
3.1 Use Case Diagram



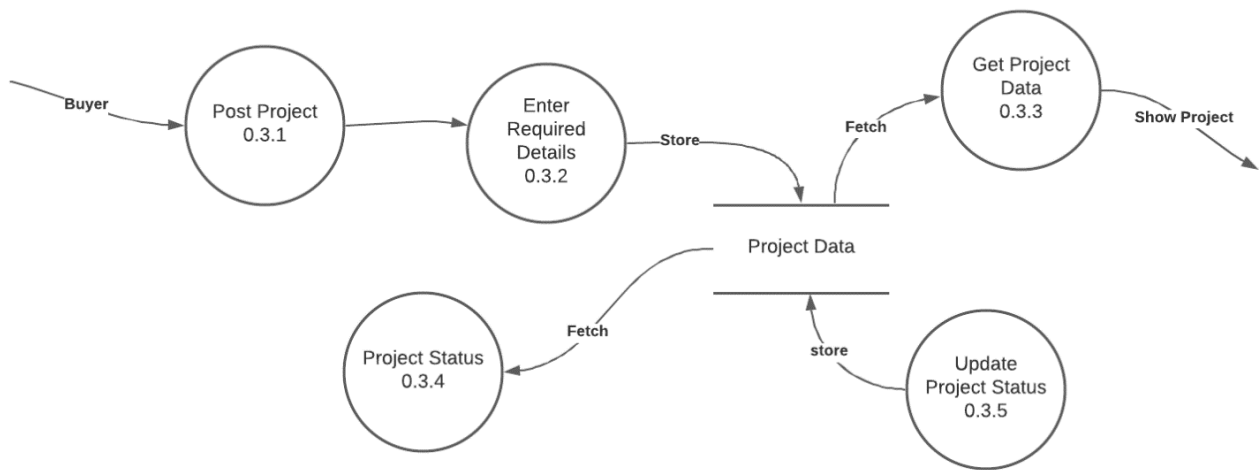
3.2 Data Flow Diagram



Level 0 - Context Diagram

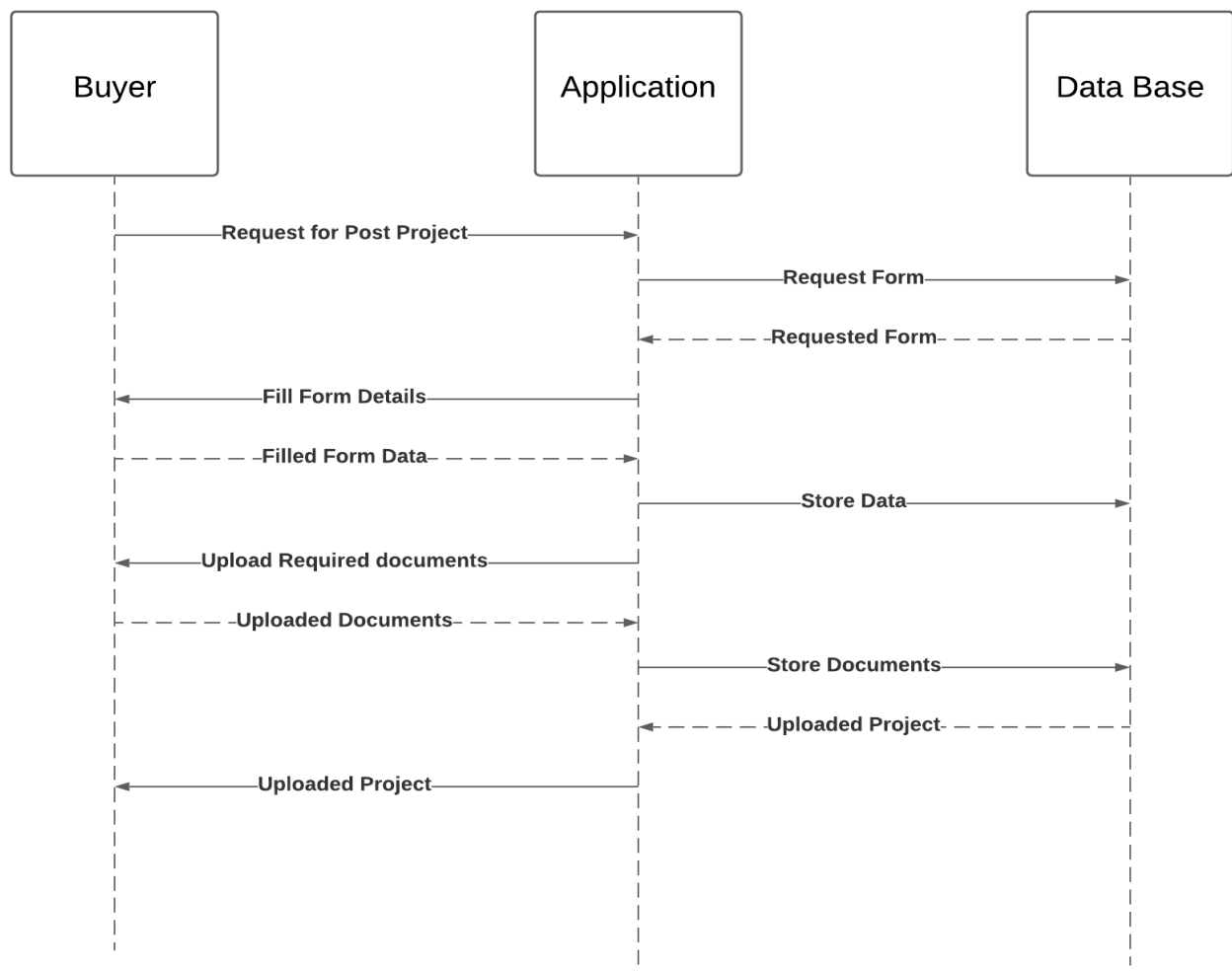


Level 1 Diagram

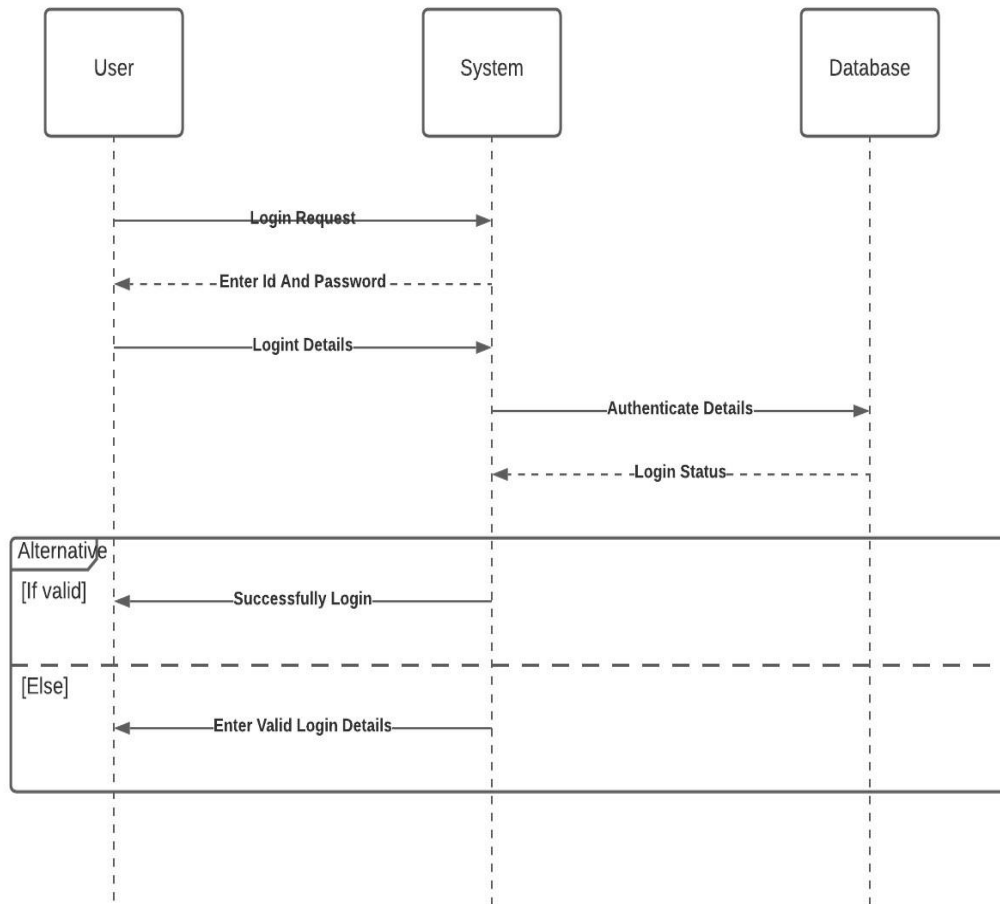


Level 2 Diagram

3.3 Sequence Diagram (Post A Project)



Login



3.4 Data Dictionary

In our project we have used the NoSQL database so we cannot create a data dictionary as well as entity relationship diagram but we are providing here some pictures of our database. We have used the MongoDB Community Server.

The screenshot displays the MongoDB Compass interface. At the top, the 'Collections' tab is active, showing a table of collections in the 'freelancerDb' database. The table has columns: Collection Name, Documents, Avg. Document Size, Total Document Size, Num. Indexes, Total Index Size, and Properties. Three collections are listed: 'bids' (1 document, 747.0 B avg size, 747.0 B total size, 1 index, 20.0 KB index size), 'projects' (3 documents, 646.0 B avg size, 1.9 KB total size, 1 index, 36.0 KB index size), and 'users' (3 documents, 288.0 B avg size, 864.0 B total size, 2 indexes, 72.0 KB index size). Below this, the 'freelancerDb.bids' collection is selected, showing 1 document, 747B total size, and 747B avg size. The 'Documents' tab is active, displaying a single document in JSON format. The document contains fields: _id, BidUser, project, BidAmount, DeliveredDays, Proposal, __v, and Status.

Collection Name ^	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties
bids	1	747.0 B	747.0 B	1	20.0 KB	
projects	3	646.0 B	1.9 KB	1	36.0 KB	
users	3	288.0 B	864.0 B	2	72.0 KB	

freelancerDb.bids

DOCUMENTS 1 TOTAL SIZE 747B AVG. SIZE 747B INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET

ADD DATA VIEW

Displaying documents 1 - 1 of 1 REFRESH

```
{
  "_id": "6172b18b49e3ba0d7084e66c",
  "BidUser": "6172947949e3ba0d7084e52d",
  "project": "51ad6083-c1c7-4e39-97e5-46cbf7e7292d",
  "BidAmount": 1000,
  "DeliveredDays": 2.5,
  "Proposal": "Lorem Ipsum is simply dummy text of the printing and typesetting indus...",
  "__v": 0,
  "Status": "Hired"
}
```

freelancerDb.projects

DOCUMENTS 3 TOTAL SIZE 1.9KB AVG. SIZE 646B INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

OPTIONS

FIND

RESET

...

ADD DATA

VIEW

{ }

Displaying documents 1 - 3 of 3

<

>

REFRESH

```
> {
  "_id": "51ad6083-c1c7-4e39-97e5-46cbf7e7292d"
  "NumberOfBids": 1
  "Name": "Web Development"
  "Description": "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque sit a..."
  "Category": "Development & It"
  "MinBudget": 600
  "MaxBudget": 1500
  "_User": ObjectId("6171386c3e1d362fb8f9dc8a")
  "Duration": 3
  "ProjectPostTime": 2021-10-21T12:21:20.247+00:00
  "Status": "completed"
  "__v": 0
  "hireUser": ObjectId("6172947949e3ba0d7084e52d")
}
```

```
{
  "_id": "a79192d7-6d8a-4cff-b0a5-7ad966d4e43b"
  "NumberOfBids": 0
  "Name": "Data Entry"
  "Description": "Nulla facilisi. Nunc eget eros massa. Lorem ipsum dolor sit amet, cons..."
  "FilePath": "0ee6223a-0a47-4d0a-b64e-d76031fd60cb_"
  "Category": "Admin & Customer Support"
  "MinBudget": 700
  "MaxBudget": 1200
  "_User": ObjectId("6171386c3e1d362fb8f9dc8a")
  "Duration": 1.5
  "ProjectPostTime": 2021-10-21T13:27:21.155+00:00
}
```

freelancerDb.users

DOCUMENTS 3 TOTAL SIZE 864B AVG. SIZE 288B INDEXES 2 TOTAL SIZE 72.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

OPTIONS

FIND

RESET

...

ADD DATA

VIEW

{ }

Displaying documents 1 - 3 of 3

<

>

REFRESH

```
> {
  "_id": ObjectId("6171386c3e1d362fb8f9dc8a")
  "Email": "buyer@gmail.com"
  "FirstName": "Buyer"
  "LastName": "Buyer"
  "Password": "$2a$10$FLtLfYmtBqvQCTULEQMO0My/ywSySc8CMqI1ofniHQCuimV7QHk"
  "Role": "buyer"
  "profileImg": "a63f9393-48f7-4d36-8044-fc1e6a7ec4fc_login_user.png"
  "createdAt": 2021-10-21T09:52:44.794+00:00
  "updatedAt": 2021-10-23T09:39:38.802+00:00
  "__v": 0
}
```

```
{
  "_id": ObjectId("617150e93e1d362fb8f9dccb")
  "Email": "freelancer@gmail.com"
  "FirstName": "Freelance"
  "LastName": "Services"
  "Password": "$2a$10$3LawLPNTTANVMCoDe.TzBuYEM3ofBcB2SJCtgmJ0eckizskXnnpUN6"
  "Role": "freelancer"
  "profileImg": "avatar.png"
  "createdAt": 2021-10-21T11:37:13.139+00:00
  "updatedAt": 2021-10-21T11:37:13.139+00:00
  "__v": 0
}
```

4.Implementation Details

- Post a Project :-

```
onSubmit() {
  this.PostProjectForm.markAllAsTouched();
  if (this.projectName?.valid && this.description?.valid && this.maxBudget?.valid
    && this.minBudget?.valid && this.category?.valid && this.projectFile?.valid &&
    this.duration?.valid) {
    this.authService.loggedUser().subscribe(
      (res:any)=>{
        if(res.status=='ok'){
          let date=new Date();
          var project: IProject = {
            _id:uuidv4(),
            Name: this.projectName?.value,
            Description: this.description?.value,
            FilePath: this.uniqueFileName,
            Category: this.category?.value,
            MinBudget: this.minBudget?.value,
            MaxBudget: this.maxBudget?.value,
            _User:res.data._id,
            Duration:this.duration?.value,
            ProjectPostTime:date,
            Status:"pending",
            NumberOfBids:0
          }
          this.projectService.addProject(project).subscribe(
            (res) => {
              this.router.navigateByUrl('/project');
            },
            (err) => {
              console.log(err);
            }
          )
        }
      }
    )
  }
}
```


- File upload in post a project form :-

```
onFileSelected(event: any) {
  const file: File = event.target.files[0];
  if (file) {
    this.uniqueFileName=uuidv4()+"_"+file.name;
    const formData = new FormData();
    formData.append("file", file,this.uniqueFileName);
    const upload$ = this.http.post(`${this.baseUri}/projectUpload`, formData, {
      reportProgress: true,
      observe: 'events'
    }).pipe(finalize(()=>this.reset()))
    this.uploadSub = upload$.subscribe(event =>{
      if (event.type == HttpEventType.UploadProgress) {
        if(event.total)
          this.uploadProgress = Math.round(100 * (event.loaded /event.total));
      }else if (event.type === HttpEventType.Response) {
        this.fileName = file.name;
        this.reset();
      }
    },)
  }
}
```

- Buyers uploaded project :-

```
getAllProject(){
  this.authService.loggedUser().subscribe(
    (res:any)=>{
      if(res.status=='ok' && res.data.Role=='buyer'){
        this.router.navigateByUrl('/')
      }
      if(res.status=='ok'){
        if(res.data.Category=='none'){
          this.projectService.getAllProject().subscribe(
            (res:any)=>{
              if(res.status=='ok'){
                if(res.data.length==0){
                  this.error="Buyers haven't yet post project.";
                }
                else
                  this.projectList=res.data;
              }
            }
          )
        }
        else{
          let obj:any={
            category:res.data.Category
          }
          this.projectService.getProjectsOfCategory(obj).subscribe(
            (res:any)=>{
              if(res.status=='ok'){
                if(res.data.length==0){
                  this.error="Buyers haven't yet post project In your Cateogry. If You want to Change Category then go to profile section.";
                }
              }
            }
          )
        }
      }
    }
  )
}
```

```

        else
        this.projectList=res.data;
    }
    }
    )
    }
    }
    }
    )
    }
}

```

- Place Bid by Freelancer :-

```

placeBid(){
  this.bidForm.markAllAsTouched();
  if(this.bidForm.valid){
    this.projectService.getOneProject(this.id).subscribe(
      (res:any)=>{
        if(res.status=='ok'){
          this.numberOfBid=res.data.NumberOfBids
        }
      }
    )
    let obj:IBid={
      BidUser:this.userId,
      project:this.id,
      BidAmount:this.bidAmount?.value,
      DeliveredDays:this.days?.value,
      Proposal:this.proposal?.value
    }
    this.bidService.placeBid(obj).subscribe(
      (res:any)=>{
        if(res.status=='ok'){
          let bid=this.numberOfBid+1;
          console.log(bid);
          let Obj={
            id:this.id,
            bid:bid
          }
          this.projectService.updateBid(Obj).subscribe(
            (res:any)=>{
              if(res.status=='ok'){
                this.router.navigate(['/findjobsProjects/',this.id,'Proposals']);
              }
            }
          )
        }
      }
    )
  }
}

```

- Get all bids of project :-

```
getAllBids(){
  this.projectService.getOneProject(this.id).subscribe(
    (res:any)=>{
      if(res.status=='ok' && (res.data.Status=='Hired' || res.data.Status=='completed')){
        this.hiredProject=true;
        this.bidService.getBidOfHiredProject(this.id).subscribe(
          (res:any)=>{
            if(res.status=='ok'){
              this.bids=res.data;
            }
          }
        )
      }
    }
  )
}
else{
  this.bidService.getBidOfProject(this.id).subscribe(
    (res:any)=>{
      if(res.status=='ok'){
        if(res.data.length==0){
          this.error="No one Place Bid Yet!";
        }
        else
          this.bids=res.data;
      }
    }
  )
}
}
```

- Freelancer's hired projects :-

```
getHiredProject(){
  this.authService.loggedUser().subscribe(
    (res:any)=>{
      if(res.status=='ok'){
        this.userId=res.data._id;
        this.projectService.getAllHiredProject(this.userId).subscribe(
          (res:any)=>{
            if(res.status=='ok'){
              {
                if(res.data.length==0)
                {
                  this.error="No Buyer has hired you yet!";
                }
                else
                  this.projectList=res.data;
              }
            }
          }
        )
      }
    }
  )
}
```

- Project file upload api :-

```
route.post('/projectUpload',(req, res,next)=> {  
  
  let file = req['files'].file;  
  let uploadPath=path.join(__dirname,"uploads")+ "/" +file.name;  
  file.mv(uploadPath,(err)=>{  
    if(err){  
      return next(err);  
    }  
    else{  
      return res.json({status:'ok',data:'file uploaded'});  
    }  
  })  
});
```

- Login user api :-

```
route.post('/login',(req,res)=>{  
  user.findOne({Email:req.body.Email}),(err,data)=>{  
    if(err){  
      console.log(err);  
    }  
    else{  
      if(!data){  
        return res.json({status:'error',error:'invalid email/password'})  
      }  
      comparePassword(req.body.Password,data.Password,(flag)=>{  
        if(flag){  
          const token=jwt.sign({  
            id:data._id,  
            // Email:data.Email,  
            // Role:data.Role  
          },config.TOKEN_SECRET)  
          return res.json({status:'ok',data:token})  
        }  
        else{  
          return res.json({status:'error',error:'invalid email/password'});  
        }  
      });  
    }  
  })  
})  
});
```

- Register user api :-

```
route.post("/register", (req, res, next) => {  
  let Obj = req.body;  
  if(!Obj.Email){  
    return res.json({status:'error',error:'email required'})  
  }  
  const ps = bcrypt.hash(Obj.Password, 10, (err, pass) => {  
    if (err) {  
      return next(err);  
    }  
    user.create({  
      Email: Obj.Email,  
      FirstName: Obj.FirstName,
```

```

        LastName: Obj.LastName,
        Password: pass,
        Role: Obj.Role,
        profileImg: Obj.profileImg
    }, (err, data) => {
        if(err){
            if (err.code==11000) {
                // console.log(Obj.Email);
                return res.json({status:'error',error:'email already in use'});
            }
            else
                return next(err);
        }
        else
            return res.json({status:'ok'})
    })
});
})

```

5. Screenshots

- Register:-

Freelancer

The screenshot shows the 'Register User' form on the Freelancer website. The form is titled 'Register User' in green. It has an email input field with the text 'hire-ddit@ddu.ac.in' and a small envelope icon to its right. Below the input field is a green button labeled 'Continue With Email'. Underneath the button is a link that says 'Already have an Account? Sign In'. At the bottom of the page, there is a dark green footer with social media icons for Facebook, Twitter, Instagram, and Email, followed by the text '© Copyright 2021 Freelancer'.

The screenshot shows the 'Complete your free account setup' form on the Freelancer website. The form is titled 'Complete your free account setup' in green. It has a header with the email 'hire-ddit@ddu.ac.in'. Below the header are three input fields: 'FirstName' with the text 'hire', 'LastName' with the text 'ddit', and 'Enter your password' with a small eye icon to its right. Below the password field are two radio buttons: 'Hire for a project' (which is selected) and 'Work as freelancer'. Below the radio buttons is a green button labeled 'Sign Up'. Underneath the button is a link that says 'Already have an Account? Sign In'.

- Login:-

Login User

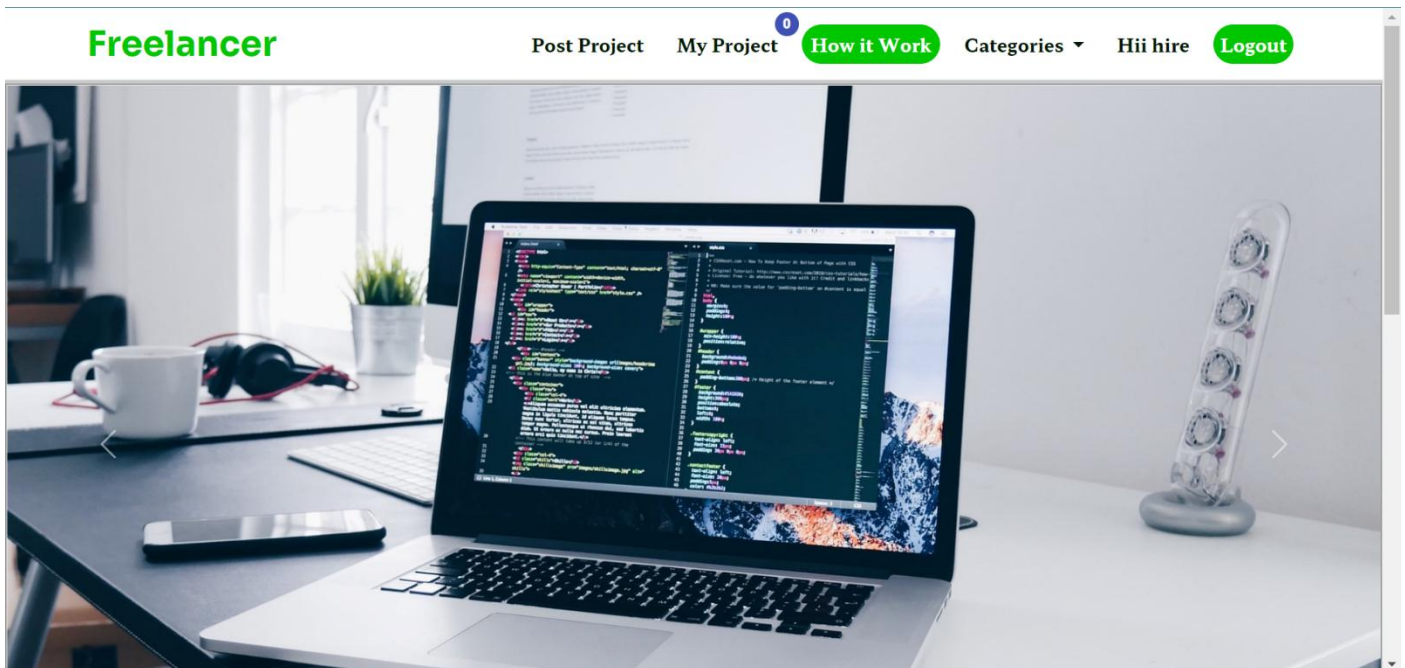
Email
hire-ddit@ddu.ac.in

Enter your password

Sign In

[Don't have an Account? Sign Up](#)

- Home:-



- How It Work:-



- Buyer Post Project :-

Freelancer

[Post Project](#)
[My Project ⁰](#)
[How it Work](#)
[Categories ▾](#)
[Hii hire](#)
[Logout](#)

Tell us what you need done

Choose a name for your project

MEAN Stack Development

Tell us more about your project

teams, customers, stakeholders and time. This page describes all the amazing new features and options that come with our premium templates. Creative Project Titles will help to easily understand your brand or product. Project Names should be professional and Easy to recognize and remember.

Freelancing-Site_Report.docx

[Next](#)

Freelancing-Site_Report.docx



Category

Development & It

Minimum enter a budget

1000

Maximum enter a budget

5000

Duration Days

4

Post Project

- Buyer's My Project :-

Freelancer

Post Project

My Project

How it Work

Categories ▾

Hii hire

Logout

MEAN Stack Development

Oct 23, 2021, 8:16:59 PM

₹ 1000 - 5000 INR

A Powerful & Multi-purpose Templates for project management. Now seamlessly manage your projects, tasks, meetings, presentations, teams, customers, stakeholders and time. This page describes all the amazing new features and options that come with our premium templates. Creative Project Titles will help to easily understand your brand or product. Project Names should be professional and Easy to recognize and remember.

Development & It

pending



0 Bid

4 Days Duration



© Copyright 2021 Freelancer

- Buyer's My Project Details:-

Freelancer
Post Project
My Project ¹
How it Work
Categories ▾
Hii hire
Logout

MEAN Stack Development

Details
Proposals

Project Details
₹ 1000 – 5000 INR

A Powerful & Multi-purpose Templates for project management. Now seamlessly manage your projects, tasks, meetings, presentations, teams, customers, stakeholders and time. This page describes all the amazing new features and options that come with our premium templates. Creative Project Titles will help to easily understand your brand or product. Project Names should be professional and Easy to recognize and remember.

Project Category
Development & It

Attached Document
[Freelancing-Site_Report.docx](#)

4 Days duration

- Freelancer Find Jobs (Buyer Posted Project):-

Freelancer
Find Jobs
My Projects
How it Work
Categories ▾
Hii freelancer
Logout

View New Projects

MEAN Stack Development
₹ 1000 -5000 INR

Oct 23, 2021, 8:16:59 PM

A Powerful & Multi-purpose Templates for project management. Now seamlessly manage your projects, tasks, meetings, presentations, teams, customers, stakeholders and time. This page describes all the amazing new features and options that come with our premium templates. Creative Project Titles will help to easily understand your brand or product. Project Names should be professional and Easy to recognize and remember.

Development & It

🚀 0 Bid 4 Days Duration

f t i e
© Copyright 2021 Freelancer

- Freelancer Place Bid:-

Place a Bid on this Project

Bid Amount
₹ 4000

This project will be delivered in
3

Days

Describe your proposal

1) "I can complete your project on time and within your budget."
2) "I have worked on similar projects to what you are looking for, and I am confident I can exceed your expectations."

Place Bid

Freelancer

Find Jobs

My Projects

How it Work

Categories ▾

Hii freelancer

Logout

MEAN Stack Development

Details

Proposals



freelancer ddit

freelancer-ddit@ddu.ac.in

₹4000 INR

in 3 days

not Hired

1) "I can complete your project on time and within your budget." 2) "I have worked on similar projects to what you are looking for, and I am confident I can exceed your expectations." 3) "I can achieve the results that you are asking for." 4) "I have attached samples of work very similar to what you are seeking." 5) "I would love to work on your project." 6) "I read through the job details extremely carefully and I am absolutely sure that I can do the project very well." 7) "I am an experienced business writer and marketing expert. I can create an _____ and create the webcopy that will have an instant connect with your end users."

- Buyer Proposals For Their Posted Project:-

Freelancer

Post Project

My Project ¹

How it Work

Categories ▾

Hii hire

Logout

MEAN Stack Development

Details

Proposals

 View New Bids



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freelancer-ddit@ddu.ac.in

₹4000 INR

in 3 days

Hire Freelancer

1) "I can complete your project on time and within your budget." 2) "I have worked on similar projects to what you are looking for, and I am confident I can exceed your expectations." 3) "I can achieve the results that you are asking for." 4) "I have attached samples of work very similar to what you are seeking." 5) "I would love to work on your project." 6) "I read through the job details extremely carefully and I am absolutely sure that I can do the project very well." 7) "I am an experienced business writer and marketing expert. I can create an _____ and create the webcopy that will have an instant connect with your end users."

- Buyer My Project:-

Freelancer

Find Jobs

My Projects

How it Work

Categories ▾

Hii freelancer

Logout

 View New Projects

MEAN Stack Development

Oct 23, 2021, 8:16:59 PM

₹ 1000 - 5000 INR

A Powerful & Multi-purpose Templates for project management. Now seamlessly manage your projects, tasks, meetings, presentations, teams, customers, stakeholders and time. This page describes all the amazing new features and options that come with our premium templates. Creative Project Titles will help to easily understand your brand or product. Project Names should be professional and Easy to recognize and remember.

Development & It

Hired

 1 Bid 4 Days Duration



- Buyer's Profile:-

Freelancer

Post Project

My Project ¹

How it Work

Categories ▾

Hii hire

Logout



hire-ddit

Member Since:

Oct 2021

Description

[Edit description](#)

My name is Shubham Shingala . Lorem ipsum dolor sit amet consectetur adipisicing elit. Mollitia, libero illum temporibus totam, hic cupiditate enim suscipit ad sapiente officiis facilis tempore nisi, inventore iusto.

- Freelancer's Profile:-

freelancer-ddit

Member Since:

Oct 2021

Description

[Edit description](#)

hiiii everyone my name is freelancer-ddit.

Category

[Add new](#)

Development & It

Education

[Add new](#)

B.Tech. - Computer Engineering
DDIT, , Graduated 2019

Certification

[Add new](#)

Add certificate

6. Conclusion

The functionalities are implemented in system after understanding all the System modules according to the requirements. Functionalities that are Successfully implemented in the system are :

- User Registration
- Login
- User authentication
- Logout
- Update Profile
- Post Project (Buyer)
- My Project (Buyer)
- Find Jobs (Freelancer)
- My Project (Freelancer)
- Update Status Of Project
- Place Bid (Freelancer)

7. Limitations and Future Enhancements

In future, we can add some functionalities like chat, video call between buyer & freelancer to make their interactions more specific. We can add payment gateway as well, we can add virus checker when someone upload the file to show alert that file contains virus. also, we can add login using google or facebook as well using their apis. We can add rating & reviews for both side like buyer & freelancer so both side easy to place bids or hire freelancers.

8. Reference / Bibliography

Following links and websites were referred during the development of this Project:

<https://stackoverflow.com/>

<https://github.com/>

<https://angular.io/>

<https://nodejs.org/>

<https://expressjs.com/>

<https://docs.mongodb.com/>