

SB Works

Full Implementation Guide

With Screen Mockups, Sample Data & API Reference

MERN STACK · SOCKET.IO · JWT AUTH · BOOTSTRAP 5

MongoDB · Express.js · React.js · Node.js

Pages	Screens	API Endpoints	User Roles
40+	12 Mockups	35+ Endpoints	3 Roles

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PART 1 — Authentication & Onboarding

Phone-based OTP login, profile completion, role selection

1.1 — Home Page / Landing Screen

The landing page is fully public — no login required. It showcases the platform's value proposition with stats, feature cards, and calls to action for both clients and freelancers.

localhost:3000 / (Home)

Find Top Freelance Talent

Post projects, hire experts, and get work done fast.

Post a Project

2,400+
Projects Posted

1,200+
Freelancers

98%
Satisfaction

Post Projects
Describe work, set budget & deadline

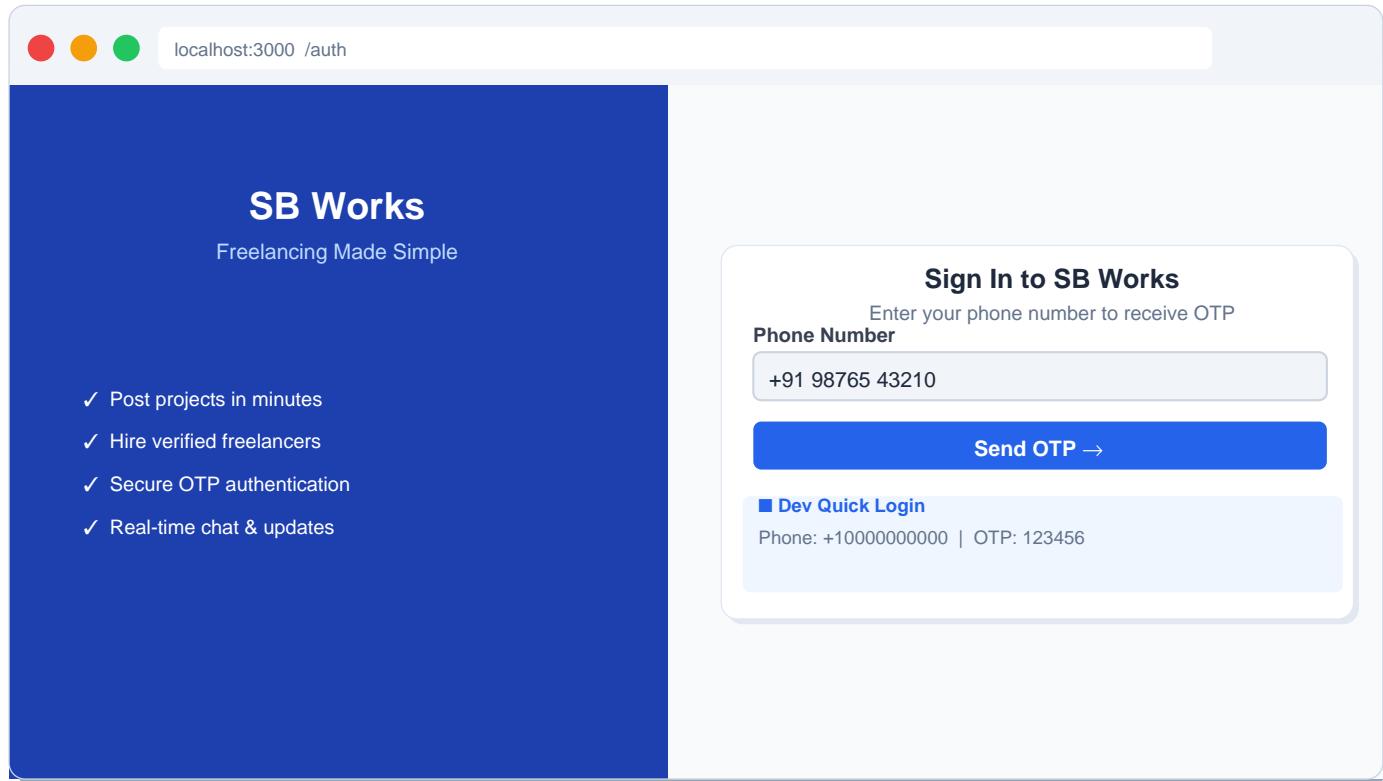
Browse & Bid
Freelancers submit competitive proposals

Hire & Review
Accept best bid, review delivered work

■ Route: src/pages/Home.jsx | No auth required | Links to /auth for login

1.2 — OTP Login: Step 1 — Enter Phone Number

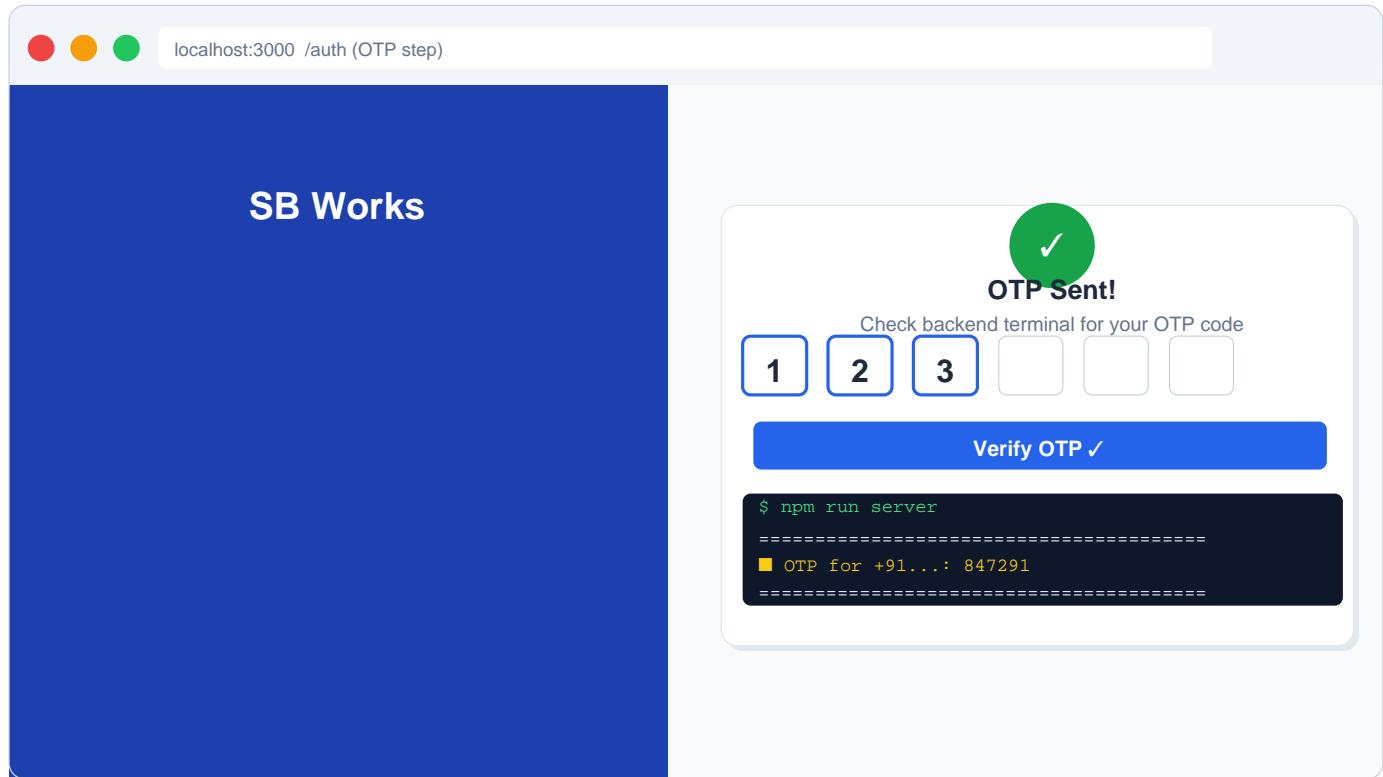
The login page has two steps. Step 1: user enters phone number. Step 2: user enters OTP. In development mode, the OTP is printed directly to the backend terminal — no SMS needed.



POST	/api/user/get-otp	■ Public
Accepts a phone number, generates a 6-digit OTP, saves it with 90-second expiry. In dev mode prints to console; in prod sends SMS via Twilio.		
REQUEST BODY		
phoneNumber String REQUIRED — e.g. "+919876543210"		
RESPONSE (200 OK)		
{ "message": "OTP sent successfully", "success": true }		

1.3 — OTP Login: Step 2 — Verify OTP Code

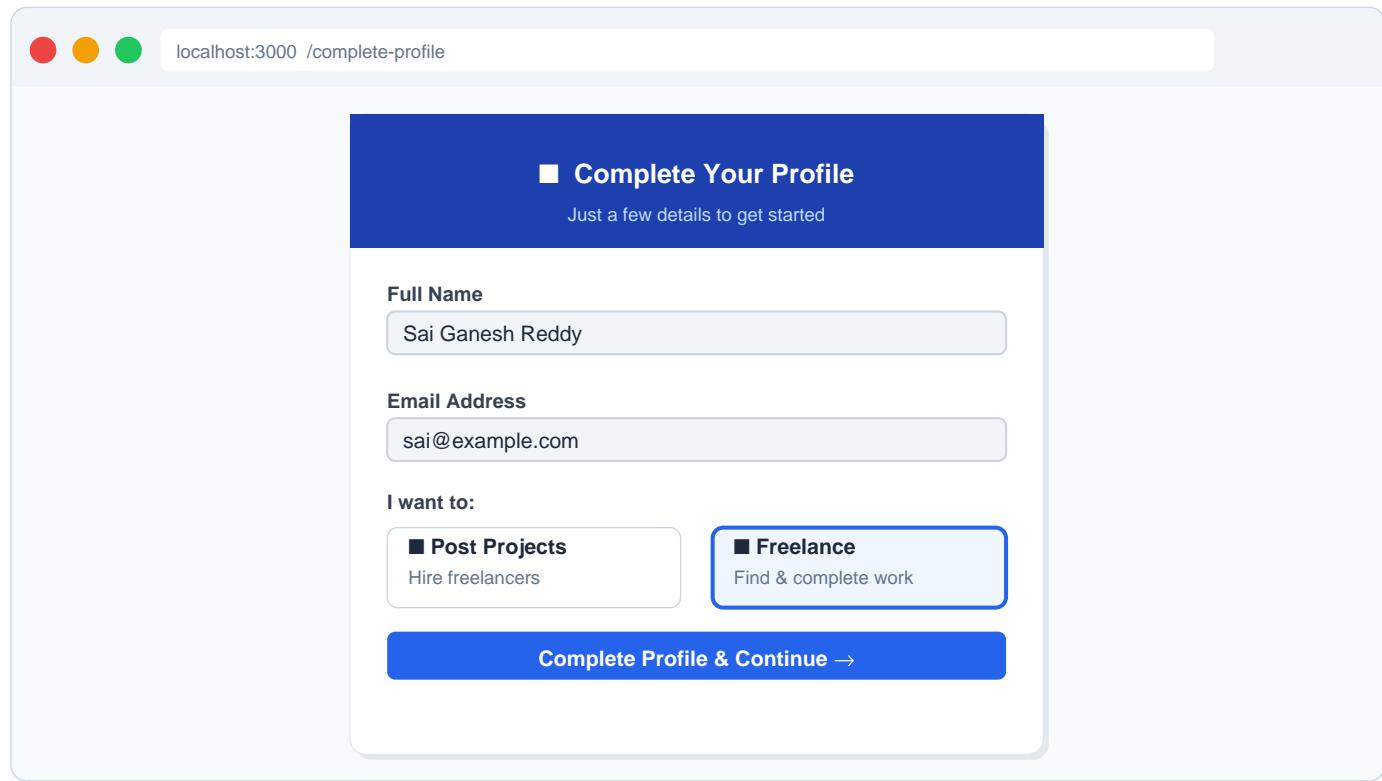
After receiving the OTP (check backend terminal in dev mode), the user enters 6 digits. On success, JWT access + refresh tokens are set as HttpOnly cookies.



POST	/api/user/check-otp	■ Public
<p>Validates OTP code against stored value and expiry. On success, sets signed HttpOnly JWT cookies. Returns user data including isActive flag to determine redirect target.</p>		
REQUEST BODY		
phoneNumber	String REQUIRED — same phone used in get-otp	
otp	Number REQUIRED — 6-digit code from terminal/SMS	
RESPONSE (200 OK)		
<pre>{ "user": { "_id": "...", "phoneNumber": "+919876543210", "role": "USER", "isActive": false, "isVerifiedPhoneNumber": true }, "success": true }</pre>		

1.4 — Complete Profile

New users (isActive=false) are redirected here after first login. They set their full name, email, and choose their role — OWNER (post projects) or FREELANCER (find work).



POST	/api/user/complete-profile	■ Token						
<p>Sets name, email, and role for a newly registered user. Sets isActive=true so they are redirected to their role dashboard on next request.</p> <p>REQUEST BODY</p> <table border="0"><tr><td style="width: 15%;">name</td><td>String REQUIRED — Full name, min 3 chars</td></tr><tr><td>email</td><td>String REQUIRED — Valid email address</td></tr><tr><td>role</td><td>String REQUIRED — "OWNER" or "FREELANCER"</td></tr></table> <p>RESPONSE (200 OK)</p> <pre>{ "user": { "name": "Rahul Kumar", "email": "rahul@example.com", "role": "FREELANCER", "isActive": true }, "success": true }</pre>			name	String REQUIRED — Full name, min 3 chars	email	String REQUIRED — Valid email address	role	String REQUIRED — "OWNER" or "FREELANCER"
name	String REQUIRED — Full name, min 3 chars							
email	String REQUIRED — Valid email address							
role	String REQUIRED — "OWNER" or "FREELANCER"							
GET	/api/user/profile	■ Token						
<p>Returns the full profile of the currently authenticated user including role, status, skills, rating.</p> <p>RESPONSE (200 OK)</p> <pre>{ "user": { "_id": "64a3b...", "name": "Rahul Kumar", "email": "rahul@example.com", "role": "FREELANCER", "status": 2, "rating": 4.8, "totalReviews": 12 } }</pre>								

PART 2 — Client (Owner) Dashboard

Post projects, review proposals, hire freelancers, approve work, leave reviews

2.1 — Owner Dashboard Overview

The owner's home screen shows key stats (active projects, new proposals, completions, avg rating) and a table of recent projects. The sidebar provides access to all owner features.

The screenshot shows the SB Works Owner Dashboard at localhost:3000 /owner/dashboard. The sidebar on the left includes links for Dashboard, My Projects, Messages, and Notifications. The main area features a welcome message "Welcome back, Rajesh!" and four key statistics in cards: 12 Active Projects (blue), 8 New Proposals (purple), 5 Completed (green), and 4.8 Avg Rating (orange). Below these are sections for Recent Projects and a button to "+ New Project". A table lists recent projects with columns for Project Title, Category, Budget, and Proposals. The table data is as follows:

Project Title	Category	Budget	Proposals
E-Commerce Website	Web Dev	\$1,500	7 bids
Mobile App Design	UI/UX	\$800	4 bids
SEO Content Writing	Writing	\$300	12 bids
Data Analysis Report	Data Sci	\$600	3 bids

■ Layout: src/layouts/OwnerLayout.jsx | Route guard: role must be OWNER or ADMIN | Stats are computed from live MongoDB queries — project count, proposal count, completions

2.2 — My Projects: List View

Shows all projects posted by the logged-in owner. Each project shows status (OPEN/CLOSED), category, budget, and proposal count. Owner can toggle status, edit, or delete projects.

GET	/api/project/owner-projects	■ Owner
-----	-----------------------------	---------

Returns all projects owned by the authenticated user, populated with proposal count. Sorted by creation date descending (newest first).

RESPONSE (200 OK)

```
{ "projects": [ { "_id": "64a3b...", "title": "React E-Commerce Website", "status": "OPEN", "budget": 1500, "category": { "title": "Web Development" }, "proposals": [...], "freelancer": null, "createdAt": "2024-01-15T..." } ], "success": true }
```

PATCH`/api/project/:id`**Owner**

Toggles project status between OPEN and CLOSED. A closed project does not appear in the freelancer browse feed. Cannot close if a freelancer is assigned.

RESPONSE (200 OK)

```
{ "project": { "status": "CLOSED", ... }, "success": true }
```

DELETE`/api/project/:id`**Owner**

Deletes a project. Only allowed if no freelancer has been assigned yet. All associated proposals are also deleted.

RESPONSE (200 OK)

```
{ "message": "Project deleted successfully", "success": true }
```

2.3 — Create New Project

The "Post Project" button opens a modal form. The owner fills in all project details and submits. The project is immediately visible to freelancers in the browse feed.

SB Works
Freelancing Platform

Post a New Project

Project Title	Build React E-Commerce Website
Category	Budget (\$)
Web Development	1500
Deadline	Tags
2024-03-15	react, node, mongodb

Post Project

POST`/api/project/add`**Owner**

Creates a new project. The project status defaults to OPEN. The authenticated user is set as the owner automatically.

REQUEST BODY

title	String REQUIRED — min 10 chars, e.g. "Build React E-Commerce Website"
description	String REQUIRED — detailed project description
category	ObjectId REQUIRED — category ID from /api/category/list
budget	Number REQUIRED — budget in USD, e.g. 1500
deadline	Date REQUIRED — ISO date string e.g. "2024-03-15"
tags	Array[String] OPTIONAL — e.g. ["react", "node", "mongodb"]

RESPONSE (200 OK)

```
{ "project": { "_id": "64c5d...", "title": "Build React E-Commerce Website", "status": "OPEN", "budget": 1500, "owner": "64a3b...", "proposals": [] }, "success": true }
```

PATCH

/api/project/update/:id

Owner

Updates any project field (title, description, budget, deadline, tags). Cannot change category or owner.
Returns updated project.

REQUEST BODY

title	String OPTIONAL — updated title
description	String OPTIONAL — updated description
budget	Number OPTIONAL — updated budget
deadline	Date OPTIONAL — updated deadline
tags	Array OPTIONAL — updated tags array

RESPONSE (200 OK)

```
{ "project": { ...updated fields... }, "success": true }
```

2.4 — View Project Detail & Proposals

Clicking a project opens the detail view. The owner sees all submitted proposals with freelancer ratings, bid amounts, delivery times, and cover letters. Accept button hires the freelancer; reject dismisses the proposal.

The screenshot shows the SB Works platform interface. On the left is a sidebar with navigation links: Dashboard, My Projects (which is selected), Messages, and Notifications. The main content area displays a project titled "E-Commerce Website with React & Node.js" with a status of "OPEN" and a budget of "\$1,500 | 7 Proposals". Below this, a section titled "Proposals Received (7)" lists three proposals from Arjun Sharma, Priya Patel, and Rahul Dev, each with a profile picture, name, rating, price, duration, and "Hire" or "Reject" buttons.

GET	/api/project/:id	Owner
------------	------------------	--------------

Returns full project details including all proposals (populated with freelancer profiles, ratings, names), current submission (if any), and assigned freelancer.

RESPONSE (200 OK)

```
{
  "project": {
    "_id": "64a3b...",
    "title": "React E-Commerce...",
    "proposals": [
      {
        "_id": "64b2c...",
        "price": 1200,
        "duration": 14,
        "description": "Cover letter text...",
        "user": {
          "name": "Arjun Sharma",
          "rating": 4.9
        },
        "status": 1
      }
    ],
    "freelancer": null,
    "status": "OPEN"
  }
}
```

2.5 — Accept or Reject a Proposal

When owner accepts a proposal, the freelancer is assigned to the project, the project status changes to CLOSED (no more bids), and all other pending proposals are auto-rejected. Both parties receive real-time notifications.

PATCH	/api/proposal/:id	Owner
--------------	-------------------	--------------

Updates proposal status. status=2 accepts the proposal (hires freelancer, closes project, rejects other proposals). status=0 rejects. Sends Socket.io notification to freelancer.

REQUEST BODY

status	Number REQUIRED — 2 = Accept (hire), 0 = Reject
--------	-------------------------------------------------

RESPONSE (200 OK)

```
// On Accept (status=2): { "proposal": { "status": 2 }, "project": { "status": "CLOSED", "freelancer": "64c3d..." }, "message": "Proposal accepted. Freelancer hired!", "success": true }
} // On Reject (status=0): { "proposal": { "status": 0 }, "message": "Proposal rejected", "success": true }
```

- Socket.io events fired: receiveNotification → freelancer gets "Proposal Accepted!" or "Proposal Rejected" bell notification in real-time

2.6 — Review Submitted Work

Once the freelancer submits work, the owner sees a "Submitted Work" section on the project detail page. They can download the file, read the description, then either approve or request revision.

localhost:3000 /owner/projects/:id (submission)

SB Works
Freelancing Platform

Rajesh Kumar

E-Commerce Website with React & Node.js
CLOSED

Work Submitted for Review
Submitted by Rahul Kumar • 2 hours ago

Work Description:
Completed the full e-commerce website. Includes product catalog, shopping cart, secure checkout with Stripe, admin dashboard, and inventory management.

project_files.zip (2.4 MB) **Download**

Approve Work **Request Revision**

Leave a Review for Rahul Kumar
5 / 5 stars

Share your experience working with this freelancer...

PATCH

/api/submission/review/:id

Owner

Owner reviews submitted work. status="approved" closes the project and notifies freelancer.
status="revision_requested" sends feedback and allows freelancer to resubmit.

REQUEST BODY

status	String REQUIRED — "approved" or "revision_requested"
--------	------------------------------------------------------

clientFeedback	String REQUIRED if revision — feedback text for the freelancer
----------------	----------------------------------------------------------------

RESPONSE (200 OK)

```
// Approved: { "submission": { "status": "approved" }, "message": "Work approved!", "success": true }
// Revision requested: { "submission": { "status": "revision_requested", "clientFeedback": "Please add mobile responsiveness" }, "success": true }
```

2.7 — Leave a Review for the Freelancer

After approving work, the owner can leave a star rating (1–5) and written review. This updates the freelancer's average rating and total review count on their profile.

POST`/api/review/add`**■ Owner**

Creates a review for the freelancer. Updates the freelancer's profile with new average rating and increments totalReviews. Sends real-time notification to the freelancer.

REQUEST BODY

project	Objectid REQUIRED — project ID the review is for
reviewee	Objectid REQUIRED — freelancer's user ID
rating	Number REQUIRED — integer 1 to 5
comment	String REQUIRED — written review, min 10 chars

RESPONSE (200 OK)

```
{ "review": { "_id": "64d4e...", "rating": 5, "comment": "Exceptional work! Delivered ahead of schedule...", "reviewer": { "name": "Rajesh Kumar" }, "reviewee": { "name": "Rahul Kumar" } }, "success": true }
```

GET`/api/review/user/:userId`**■ Token**

Returns all reviews for a specific user (freelancer). Includes reviewer info, rating, comment, and the project context for each review.

RESPONSE (200 OK)

```
{ "reviews": [ { "rating": 5, "comment": "Excellent developer...", "reviewer": { "name": "Rajesh Kumar" }, "project": { "title": "E-Commerce..." } } ], "averageRating": 4.8, "totalReviews": 12, "success": true }
```

PART 3 — Freelancer Dashboard

Browse projects, submit proposals, track status, submit work

3.1 — Freelancer Dashboard Overview

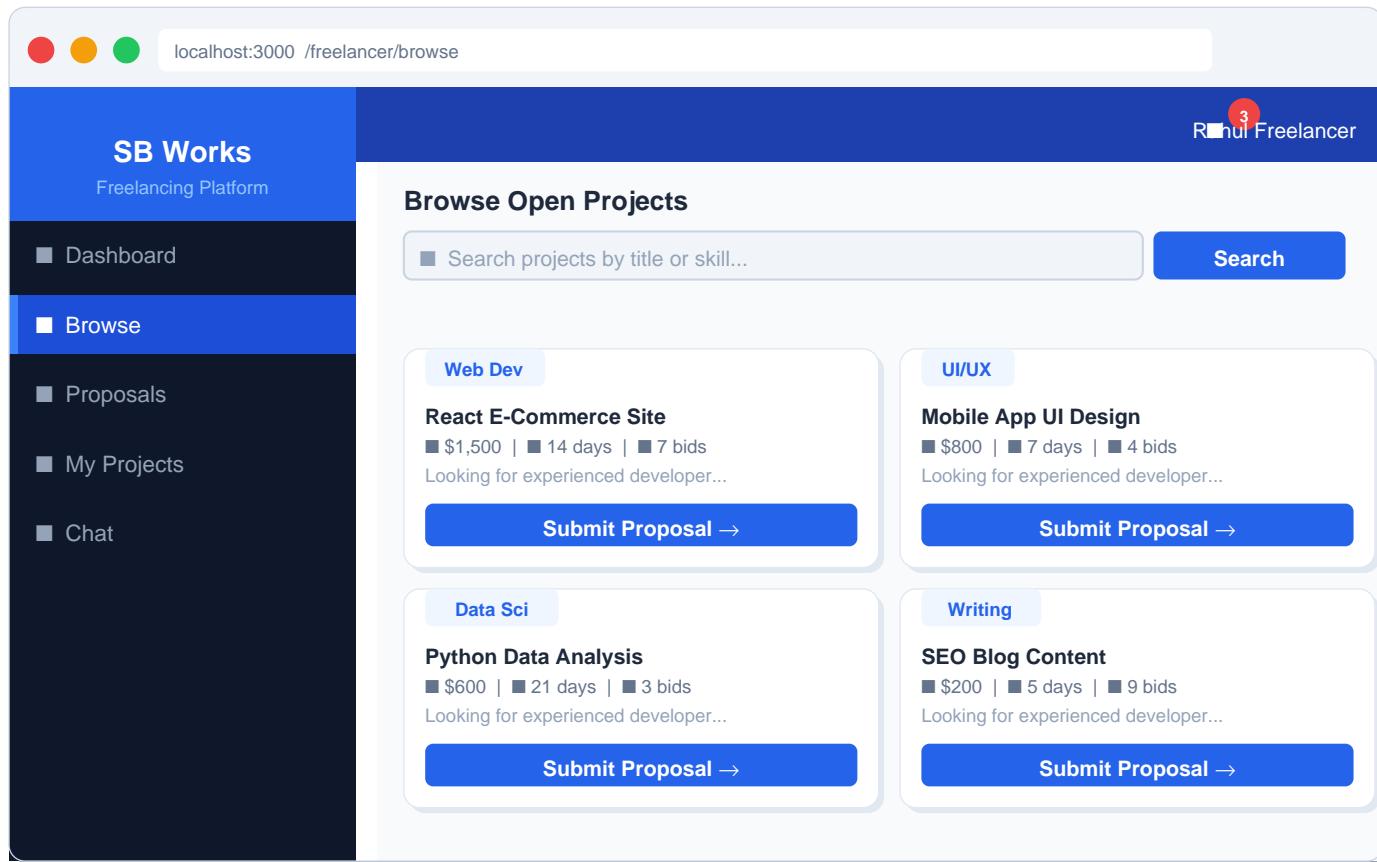
The freelancer's home shows their active proposals, current projects, rating, and total earnings. A profile card shows their skills and rating. Recent proposals are listed inline.

The screenshot shows the SB Works Freelancer Dashboard at localhost:3000 /freelancer/dashboard. The sidebar on the left contains a logo for 'SB Works Freelancing Platform' and a list of navigation items: Dashboard, Browse, Proposals, My Projects, and Chat. The main dashboard area features a welcome message 'Welcome back, Rahul!' and four summary cards: 'Active Proposals' (5), 'Active Projects' (3), 'Rating' (4.7), and 'Earned' (\$4,200). Below these is a 'My Profile' section with a circular icon containing 'RK', the name 'Rahul Kumar', title 'Full Stack Developer', and skills 'React', 'Node.js', 'MongoDB', and 'Python'. To the right is a 'Recent Proposals' section listing three items: 'E-Commerce Site' (\$1,200) with status 'Pending', 'Mobile App' (\$800) with status 'Accepted', and 'Data Report' (\$450) with status 'Rejected'.

■ Layout: src/layouts/FreelancerLayout.jsx | Sidebar: Dashboard, Browse, My Proposals, My Projects, Chat | Stats computed from live DB queries

3.2 — Browse Open Projects

Freelancers see all OPEN projects in a card grid. Each card shows category, title, budget, deadline, and proposal count. A search bar allows filtering by keyword.



GET /api/project/list Token

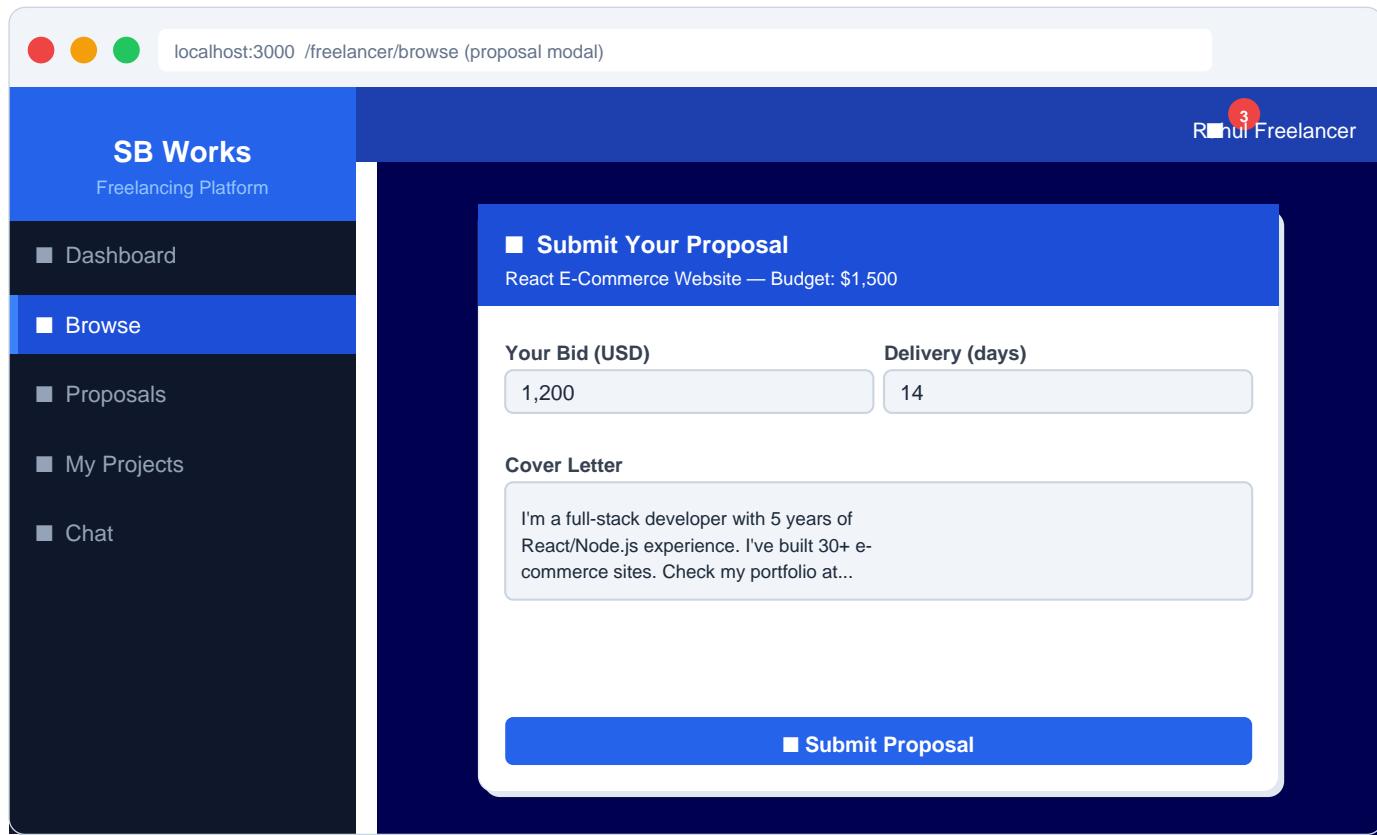
Returns all projects with status=OPEN. Populated with category and owner info. Supports query param ?search=keyword to filter by title. Does not return projects where the current user has already submitted a proposal.

RESPONSE (200 OK)

```
{
  "projects": [
    {
      "_id": "64a3b...",
      "title": "React E-Commerce Website",
      "status": "OPEN",
      "budget": 1500,
      "deadline": "2024-03-15",
      "category": {
        "title": "Web Development"
      },
      "owner": {
        "name": "Rajesh Kumar"
      },
      "proposals": [...],
      "_proposalCount": 7
    }
  ],
  "success": true
}
```

3.3 — Submit a Proposal

Clicking "Submit Proposal" on a project card opens a modal. Freelancer enters bid amount, delivery time, and a cover letter. Submission notifies the project owner in real-time.



POST /api/proposal/add **Freelancer**

Creates a new proposal. Validates that user has not already submitted a proposal for this project (one per user per project). Notifies project owner via Socket.io.

REQUEST BODY

projectId	ObjectId REQUIRED — ID of the project being bid on
price	Number REQUIRED — bid amount in USD
duration	Number REQUIRED — delivery time in days
description	String REQUIRED — cover letter text, min 20 chars

RESPONSE (200 OK)

```
{ "proposal": { "_id": "64b2c...", "price": 1200, "duration": 14, "status": 1, "user": "64c3d...", "project": "64a3b..." }, "message": "Proposal submitted successfully", "success": true }
```

■■■ Duplicate prevention: if you submit a proposal for a project you already bid on, the API returns a 400 error: "You have already submitted a proposal for this project"

3.4 — My Proposals — Track Status

Freelancers can track all their submitted proposals in a table showing project title, bid amount, delivery time, and current status (Pending / Accepted / Rejected).

GET /api/proposal/list **Freelancer**

Returns all proposals submitted by the authenticated freelancer. Populated with project title, owner name, and category. Status: 0=Rejected, 1=Pending, 2=Accepted.

RESPONSE (200 OK)

```
{ "proposals": [ { "_id": "64b2c...", "price": 1200, "duration": 14, "status": 1, "project": { "title": "React E-Commerce Website", "budget": 1500, "owner": { "name": "Rajesh Kumar" } } }, { "_id": "64b3d...", "price": 800, "duration": 7, "status": 2, "project": { "title": "Mobile App UI Design" } } ], "success": true }
```

3.5 — My Active Projects

Shows projects where the freelancer's proposal was accepted. Each project card has a "Submit Work" button to deliver completed work to the client.

- Logic: Query all proposals with status=2 (accepted) for current user, then populate project details. Route: GET /api/proposal/list → filter by status=2 on frontend, or use the accepted-proposals endpoint.

3.6 — Submit Completed Work

The submit work modal lets the freelancer write a description and optionally attach a file (zip, pdf, images). The file is uploaded via multipart/form-data to the /uploads/ folder.

localhost:3000 /freelancer/my-projects (submit modal)

SB Works
Freelancing Platform

Rahul Freelancer 3

Submit Your Work
Project: E-Commerce Website with React

Work Description

Completed the React e-commerce website as requested. Includes: product listing, cart, checkout, admin panel, and Stripe payments.

Attach File (optional)

project_files.zip (2.4 MB) ✓ Attached

Submit Work for Review

POST /api/submission/submit **Freelancer**

Uploads work submission. Content-Type must be multipart/form-data. File is saved to /uploads/ folder with a unique name. Notifies client via Socket.io.

REQUEST BODY

projectId	String REQUIRED — project ID (form field)
description	String REQUIRED — work description (form field)
file	File OPTIONAL — any file type, saved to /uploads/

RESPONSE (200 OK)

```
{ "submission": { "_id": "64e5f...", "project": "64a3b...", "freelancer": "64c3d...", "description": "Completed the website...", "fileUrl": "/uploads/1705123456789-project_files.zip", "fileName": "project_files.zip", "status": "submitted" }, "success": true }
```

GET`/api/submission/project/:projectId`**■ Token**

Returns the submission for a specific project. Used by both client (to review work) and freelancer (to check submission status and client feedback).

RESPONSE (200 OK)

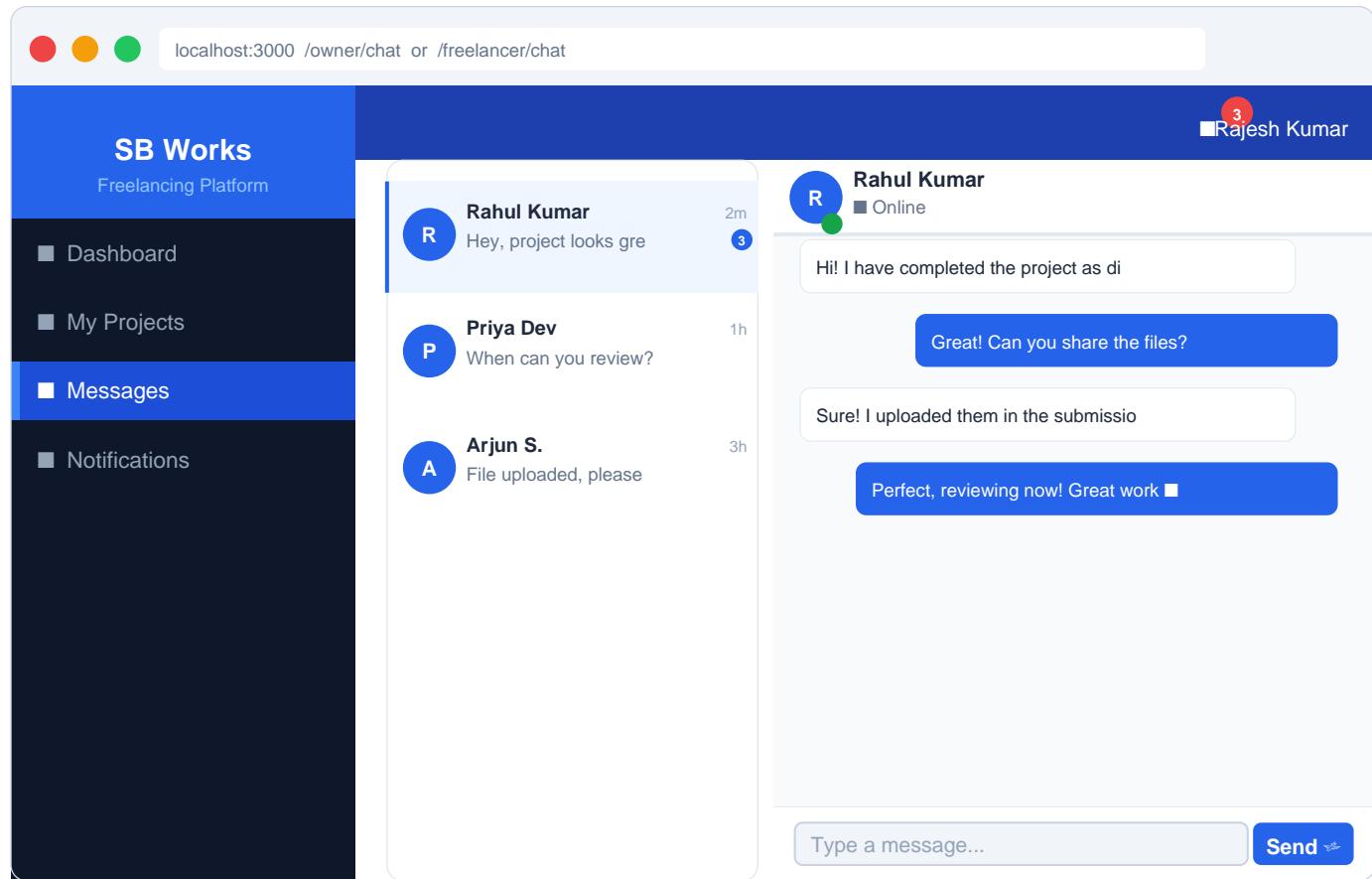
```
{ "submission": { "status": "revision_requested", "clientFeedback": "Please add mobile responsiveness and dark mode", "fileUrl": "/uploads/...", "fileName": "project_files.zip", "freelancer": { "name": "Rahul Kumar" } }, "success": true }
```

PART 4 — Real-time Chat & Notifications

Socket.io powered messaging and notification system

4.1 — Chat Interface

The chat system is fully real-time via Socket.io. The left panel shows all conversations with unread counts. The right panel shows the message thread with the selected user. Messages are persisted in MongoDB so history is preserved across sessions.



POST	/api/message/send	■ Token
Saves message to MongoDB. Emits "receiveMessage" event to receiver via Socket.io if they are online. Message appears instantly in the chat window.		
REQUEST BODY		
receiverId	ObjectId REQUIRED — user ID of recipient	
content	String REQUIRED — message text	
projectId	ObjectId OPTIONAL — link message to a project context	
RESPONSE (200 OK)		
<pre>{ "message": { "_id": "64f6g...", "sender": "64a3b...", "receiver": "64c3d...", "content": "Hi! I have uploaded the files, please review.", "isRead": false, "createdAt": "2024-01-15T10:30:00Z" }, "success": true }</pre>		

GET	/api/message/conversation/:userId	■ Token
-----	-----------------------------------	---------

Returns all messages between the authenticated user and the specified userId. Sorted oldest to newest for display in chat window.

RESPONSE (200 OK)

```
{ "messages": [ { "sender": "64a3b...", "receiver": "64c3d...", "content": "Hi! Interested in your project", "isRead": true }, { "sender": "64c3d...", "receiver": "64a3b...", "content": "Great! Please submit a proposal", "isRead": true } ], "success": true }
```

GET	/api/message/conversations	■ Token
-----	----------------------------	---------

Returns all unique conversation partners with their latest message and unread count. Used to populate the left sidebar conversation list.

RESPONSE (200 OK)

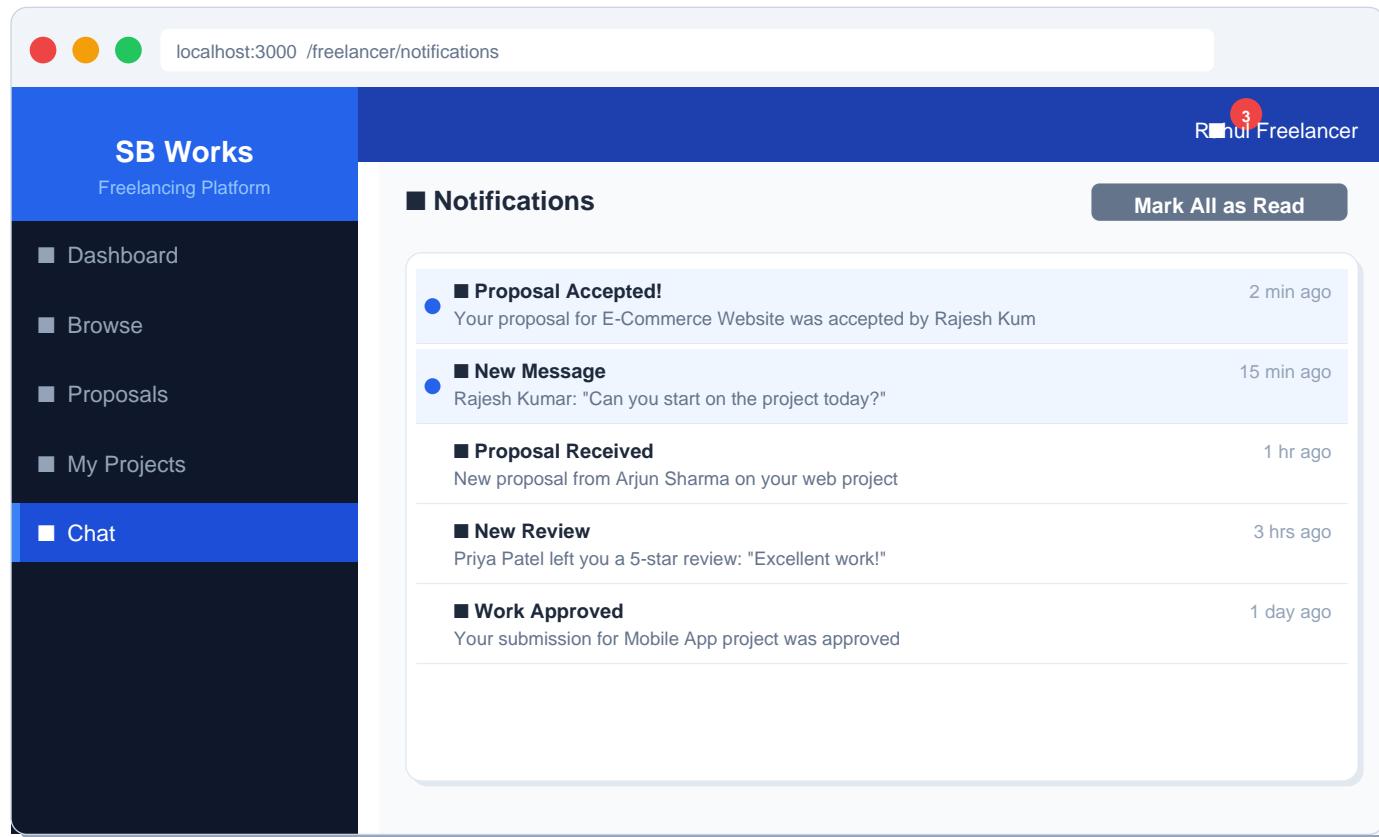
```
{ "conversations": [ { "user": { "name": "Rahul Kumar", "_id": "64c3d..." }, "lastMessage": "Files are uploaded!", "unreadCount": 3 }, { "user": { "name": "Priya Patel" }, "lastMessage": "When can you review?", "unreadCount": 0 } ], "success": true }
```

Socket.io Events Reference

Event	Direction	Payload	When Triggered
join	Client → Server	{ userId: "64a3b..." }	After login — joins personal notification room
sendMessage	Client → Server	{ receiverId, content, projectId? }	User sends a chat message
receiveMessage	Server → Client	Full message object	New message arrives for the user
sendNotification	Client → Server	{ receiverId, notification }	Manual notification push
receiveNotification	Server → Client	{ title, message, type, link }	Any platform notification
disconnect	Automatic	—	User closes browser / loses connection

4.2 — Notification Center

Bell icon in topbar shows unread count badge. Clicking opens notification center. Unread items are highlighted in blue. Users can mark individual or all notifications as read.



GET /api/notification ■ Token

Returns all notifications for the authenticated user, sorted newest first. Unread notifications have isRead=false.

RESPONSE (200 OK)

```
{
  "notifications": [
    {
      "_id": "64g7h...",
      "title": "Proposal Accepted!",
      "message": "Your proposal was accepted by Rajesh Kumar",
      "type": "bid",
      "isRead": false,
      "link": "/freelancer/my-projects",
      "createdAt": "2024-01-15T10:25:00Z"
    }
  ],
  "unreadCount": 3,
  "success": true
}
```

PATCH /api/notification/read-all ■ Token

Marks all notifications for the current user as read (isRead=true). Bell badge count drops to 0.

RESPONSE (200 OK)

```
{
  "message": "All notifications marked as read",
  "success": true
}
```

PART 5 — Admin Panel

User management, platform oversight, category management

5.1 — Admin Dashboard

The admin has a full overview of platform activity — total users, projects, proposals, and completions. Recent activity feed shows all user actions in real-time.

The screenshot shows the Admin Dashboard at `localhost:3000 /admin/dashboard`. The left sidebar includes links for Dashboard, Users, Projects, Proposals, and Categories. The main area features a 'Platform Overview' section with four cards: 'Total Users' (48), 'Total Projects' (24), 'Proposals' (87), and 'Completed' (15). Below this is a 'Recent User Activity' feed:

User	Action	Time Ago
Priya Patel	registered as FREELANCER	5 min ago
Rajesh Kumar	posted new project: Mobile App	20 min ago
Rahul Dev	proposal accepted on E-Commerce Site	1 hr ago
Arjun Sharma	submitted work for review	2 hrs ago
Meera Singh	left 5-star review	3 hrs ago

A note in the bottom right corner states: "■ Admin login credentials (seeded by npm run seed): Phone: +10000000000 | OTP: 123456 | These are permanent test credentials set in seed.js"

5.2 — User Management

Admin sees all registered users in a searchable table. Each user has a status badge (Approved / Pending / Rejected) and a "Change Status" button to approve, pend, or reject users.

GET

/api/admin/user/list

Admin

Returns all registered users with search support. Query param ?search= filters by name, email, or phone number.

RESPONSE (200 OK)

```
{ "users": [ { "_id": "64a3b...", "name": "Rahul Kumar", "email": "rahul@example.com", "phoneNumber": "+919876543210", "role": "FREELANCER", "status": 2, "rating": 4.8, "totalReviews": 12, "isActive": true } ], "total": 48, "success": true }
```

PATCH

/api/admin/user/verify/:userId

Admin

Changes a user's account status. This is the primary way admin approves new signups. Status 2=Approved, 1=Pending, 0=Rejected. Rejected users cannot access the platform.

REQUEST BODY

status

Number REQUIRED — 0=Rejected, 1=Pending, 2=Approved

RESPONSE (200 OK)

```
{ "user": { "_id": "64c3d...", "name": "Priya Patel", "status": 2 }, "message": "User status updated successfully", "success": true }
```

GET

/api/admin/user/profile/:userId

Admin

Returns detailed profile of any user including their projects, proposals, submissions, and review history. Used for admin investigation of user activity.

RESPONSE (200 OK)

```
{ "user": { "name": "Rahul Kumar", "role": "FREELANCER", "status": 2, "proposals": [...], "submissions": [...], "reviews": [...] }, "success": true }
```

5.3 — Category Management

Admin manages the project categories that appear in the project creation form. The seed script creates 10 default categories. Admin can add, edit, or delete categories.

POST[/api/admin/category/add](#)**■ Admin**

Creates a new project category. The title must be unique. Categories are immediately available in the project creation form.

REQUEST BODY

title	String REQUIRED — unique category name, e.g. "Blockchain Development"
description	String OPTIONAL — short description
type	String OPTIONAL — defaults to "project"

RESPONSE (200 OK)

```
{ "category": { "_id": "64h8i...", "title": "Blockchain Development", "description": "Solidity, Web3, DeFi projects", "type": "project" }, "success": true }
```

PATCH[/api/admin/category/update/:id](#)**■ Admin**

Updates a category's title or description. All existing projects in this category automatically reflect the updated name.

REQUEST BODY

title	String OPTIONAL — updated category name
description	String OPTIONAL — updated description

RESPONSE (200 OK)

```
{ "category": { "title": "Blockchain & Web3 Dev", ... }, "success": true }
```

DELET E[/api/admin/category/remove/:id](#)**■ Admin**

Deletes a category. Only possible if no projects are currently using this category. Returns error if category is in use.

RESPONSE (200 OK)

```
{ "message": "Category deleted successfully", "success": true }
```

PART 6 — Complete API Reference

All 35+ endpoints — method, path, authentication, and purpose

Base URL: <http://localhost:5000/api> | Auth: Signed HttpOnly JWT Cookie

Group	Method	Endpoint	Auth	Description
AUTH	POST	/user/get-otp	Public	Send OTP to phone number
AUTH	POST	/user/check-otp	Public	Verify OTP → set JWT cookies
AUTH	POST	/user/complete-profile	Token	Set name, email, role for new user
AUTH	GET	/user/profile	Token	Get current authenticated user
AUTH	GET	/user/refresh-token	Cookie	Refresh expired access token
AUTH	POST	/user/logout	None	Clear auth cookies
PROJECT	GET	/project/list	Token	All OPEN projects (freelancer browse)
PROJECT	GET	/project/owner-projects	Owner	My posted projects with proposals
PROJECT	POST	/project/add	Owner	Create a new project
PROJECT	GET	/project/:id	Token	Single project detail + proposals + submission
PROJECT	PATCH	/project/update/:id	Owner	Edit project fields
PROJECT	PATCH	/project/:id	Owner	Toggle OPEN ↔ CLOSED status
PROJECT	DELETE	/project/:id	Owner	Delete project (if no freelancer)
PROPOSAL	GET	/proposal/list	Freelancer	My submitted proposals
PROPOSAL	POST	/proposal/add	Freelancer	Submit proposal to a project
PROPOSAL	GET	/proposal/:id	Token	Get single proposal details
PROPOSAL	PATCH	/proposal/:id	Owner	Accept (2) or Reject (0) proposal
MESSAGE	POST	/message/send	Token	Send a chat message
MESSAGE	GET	/message/conversation/:userId	Token	Get chat history with a user

MESSAGE	GET	/message/conversations	Token	All conversations with last message
MESSAGE	PATCH	/message/read/:senderId	Token	Mark messages from sender as read
SUBMISSION	POST	/submission/submit	Freelancer	Upload work files + description
SUBMISSION	GET	/submission/project/:projectId	Token	Get submission for a project
SUBMISSION	GET	/submission/my	Freelancer	All my submissions + statuses
SUBMISSION	PATCH	/submission/review/:id	Owner	Approve or request revision
REVIEW	POST	/review/add	Owner	Submit star rating + comment
REVIEW	GET	/review/user/:userId	Token	All reviews for a user
REVIEW	GET	/review/project/:projectId	Token	All reviews for a project
NOTIF	GET	/notification	Token	My notifications list
NOTIF	PATCH	/notification/read/:id	Token	Mark one notification as read
NOTIF	PATCH	/notification/read-all	Token	Mark all notifications as read
NOTIF	DELETE	/notification/:id	Token	Delete a notification
CATEGORY	GET	/category/list	Token	All project categories
ADMIN	GET	/admin/user/list	Admin	All users with search
ADMIN	PATCH	/admin/user/verify/:userId	Admin	Change user status 0/1/2
ADMIN	GET	/admin/user/profile/:userId	Admin	User profile + all activity
ADMIN	POST	/admin/category/add	Admin	Add project category
ADMIN	PATCH	/admin/category/update/:id	Admin	Edit category
ADMIN	DELETE	/admin/category/remove/:id	Admin	Delete category

Sample Data Reference

Test accounts, sample projects, and expected responses

Seed Data Created by: npm run seed

```
■ ■ Admin Account — Phone: +10000000000 | OTP: 123456 (permanent) | Status: Approved | Role: ADMIN | isActive: true
```

10 Project Categories Created by Seed:

1. Web Development	2. Mobile Development	3. UI/UX Design	4. Content Writing	5. Digital Marketing
6. Video & Animation	7. Data Science	8. DevOps & Cloud	9. Other	10. Graphic Design

Sample API Request/Response — Create Project

Sample: Create Project

```
// POST /api/project/add
// Headers: Cookie: accessToken=<jwt_token>
// Content-Type: application/json

REQUEST:
{
  "title": "Build a Full Stack E-Commerce Website with React & Node.js",
  "description": "Need an experienced developer to build a complete e-commerce platform with product catalog, shopping cart, Stripe payments, admin dashboard, and inventory management.",
  "category": "64a1b2c3d4e5f6g7h8i9j0k1",
  "budget": 1500,
  "deadline": "2024-03-15T00:00:00.000Z",
  "tags": ["react", "nodejs", "mongodb", "stripe", "redux"]
}

RESPONSE (201 Created):
{
  "project": {
    "_id": "64c3d4e5f6g7h8i9j0k1l2m3",
    "title": "Build a Full Stack E-Commerce Website with React & Node.js",
    "status": "OPEN",
    "budget": 1500,
    "deadline": "2024-03-15T00:00:00.000Z",
    "owner": { "_id": "64a3b4c5d6...", "name": "Rajesh Kumar" },
    "category": { "_id": "64a1b2c3...", "title": "Web Development" },
    "tags": ["react", "nodejs", "mongodb", "stripe", "redux"],
    "proposals": [],
    "freelancer": null,
    "createdAt": "2024-01-15T10:00:00.000Z"
  },
  "success": true
}
```

Sample API Request/Response — Submit Proposal

Sample: Submit Proposal

```
// POST /api/proposal/add
// Headers: Cookie: accessToken=<jwt_token>

REQUEST:
{
  "projectId": "64c3d4e5f6g7h8i9j0k1l2m3",
  "price": 1200,
  "duration": 14,
  "description": "I am a full-stack developer with 5 years of React and Node.js experience. I have built 30+ e-commerce platforms and can deliver this project within 2 weeks. Please check my portfolio at github.com/rahuldev."
}

RESPONSE (201 Created):
{
  "proposal": {
    "_id": "64d4e5f6g7h8i9j0k1l2m3n4",
    "price": 1200,
    "duration": 14,
    "status": 1,
    "user": { "_id": "64c3d...", "name": "Rahul Kumar", "rating": 4.8 },
    "project": { "_id": "64c3d4...", "title": "Build a Full Stack E-Commerce..." },
    "message": "Proposal submitted successfully",
    "success": true
  }
}

// Socket.io event fired simultaneously:
// Server emits to project owner's room:
{ "title": "New Proposal!", "message": "Rahul Kumar submitted a proposal for your project", "type": "bid", "link": "/owner/projects/64c3d4e5f6g7h8i9j0k1l2m3" }
```

Error Response Examples

Common Error Responses

```
// 401 Unauthorized – No token or expired token:
{ "message": "Authentication required. Please login.", "success": false }

// 403 Forbidden – Wrong role:
{ "message": "Access denied. This action requires OWNER role.", "success": false }

// 403 Forbidden – Account not approved:
{ "message": "Your account is pending admin approval.", "success": false }

// 400 Bad Request – Duplicate proposal:
{ "message": "You have already submitted a proposal for this project.", "success": false }

// 400 Bad Request – Validation error:
{ "message": "title must be at least 10 characters", "success": false }

// 404 Not Found:
{ "message": "Project not found", "success": false }

// 410 OTP Expired:
{ "message": "OTP has expired. Please request a new one.", "success": false }
```

