

ConnecWrk - Assignments Module (Post, Browse, Bid, Manage) - Super Detailed Spec

Scope: Everything in the "Assignments" ecosystem. This covers: posting an assignment, browsing/searching assignments, viewing a specific assignment and bidding, managing bids, bookmarks, interested projects, and the central Manage Assignments dashboard. This also defines expected backend behavior, payloads, status codes, and how Connie (the AI assistant) should reason about this module.

1. Product Definition

1.1 What is the Assignments Module?

The Assignments module is the marketplace where **clients (project owners)** post work opportunities (called "Assignments") and **freelancers** discover those assignments, express interest, and submit bids.

It is also the control panel where: - Clients manage the assignments they have posted. - Freelancers track all the assignments they interacted with: bookmarked, expressed interest in, or actually bid on.

In short: - **Demand side** = Clients who need work done. - **Supply side** = Freelancers looking for paid work.

1.2 Surfaces / Routes in Assignments

These are the main front-end routes a user can hit in this module:

1. **/freelancer-connect/** (Entry point / marketing layer)
2. Hero section explaining why clients should post and why freelancers should register.
3. Featured assignments cards.
4. CTAs to "Post Your Assignment" and "Register As a Freelancer".
5. **/register-freelancer/** (Freelancer onboarding form)
6. Freelancers describe their skills, experience level, title, work location, email, phone, etc.
7. This makes them discoverable to clients.
8. **/freelancers/** (Search Freelancers)
9. Grid of freelancer cards (avatar, name, category, experience level).
10. Search by name, filter by category.
11. CTA: "Register as a Freelancer" for new talent to join.
12. **/search-projects/** (Find Assignments)

13. Search UI for freelancers to discover available assignments.
14. Filters: keyword (what?), location (where?), "Nature of Assignment" (e.g. part time), plus Sort By.
15. Result list = assignment cards with owner info and high-level details.

16. **/project/?id={projectId}** (Assignment Detail + Bid Screen)

17. Full assignment detail view.
18. Shows budget, category, skills required, timeline, preferred freelancer location, description.
19. Shows assignment owner's mini-profile.
20. Includes bid placement UI ("Place Your Bid").

21. **/post-project/** (Post an Assignment form)

22. For clients / MSMEs to create a new assignment.
23. Captures title, category, country, city, start date, duration, budget, description, skills, work mode, and contact email.
24. Requires confirmation checkbox that the user is authorized to post.

25. **/manage-projects/** (Manage Assignments dashboard)

26. Multi-tab console with:
 - **My Assignment** (projects you posted)
 - **My Bids** (bids you submitted to others' projects)
 - **Bookmarked Assignments**
 - **Assignments I am interested in**

27. Shows "Post an Assignment" CTA if you are a client.

28. **/my-bid/** (My Bids detail tab – can also be reached via Manage Assignments)

29. Tracks every bid you've placed.
30. Tabs for: All Bids / Pending / Approved / Shortlisted / Rejected.
31. CTA to "Browse Projects" if you haven't bid yet.

32. **/bookmarked-projects/** (Bookmarked Assignments tab)

33. Shows assignments the user explicitly bookmarked to review later.
34. Ability to remove bookmark.

35. **/interested-projects/** (Assignments I am Interested In)

- Shows assignments where the user clicked some form of "I'm interested" / "Show interest".
- This is effectively a shortlist of leads the freelancer wants to track.
- CTA: "Find Assignments" if list is empty.

NOTE: In left-hand navigation of the logged-in dashboard, there is an "Assignments" entry. That left-rail link is conceptually the same vertical. It should route the user to this same Assignments module and/or to Manage Assignments.

2. Personas in Assignments

2.1 Client / Project Owner ("Owner")

This user posts assignments and hires freelancers. - Creates new assignments via **/post-project/**. - Appears as the "Posted By" user on assignment details. - Views incoming bids for their project. - Marks bids as Shortlisted / Approved / Rejected / Work Started / Delivered. - Manages their posted assignments in **/manage-projects/** → "My Assignment" tab.

2.2 Freelancer

This user wants paid work. - Registers via **/register-freelancer/** so they appear in search results on **/freelancers/**. - Browses assignments via **/search-projects/**. - Opens full assignment detail via **/project/?id=XYZ**. - Places bids. - Tracks their bids (status changes, milestones, etc.) in **/my-bid/**. - Saves interesting assignments using Bookmarks or Interested. - Tracks saved/interested assignments in **/bookmarked-projects/** and **/interested-projects/**.

3. High-Level User Journeys

3.1 Client Journey: Post → Manage → Pick Bidder

1. Client clicks "**Post Your Assignment**" (e.g. from `/freelancer-connect/` hero banner or `/manage-projects/`).
2. Client lands on **/post-project/**.
3. Fills required fields (title, category, location, budget, duration, email).
4. Confirms authorization checkbox.
5. Saves.
6. Assignment goes live.
7. It can now show in `/search-projects/`.
8. It can surface under "Featured Assignments" on `/freelancer-connect/`.
9. Freelancers view the assignment, bid.
10. Client reviews bids (UI not fully shown in screenshots, but implied by My Assignment + My Bids split and bidder flows from chatbot docs).
11. Client updates a bid's status (Shortlisted, Approved, etc.).
12. Client can close or delete the assignment later via `/manage-projects/`.

3.2 Freelancer Journey: Discover → Bid → Track

1. Freelancer visits **/freelancer-connect/**.
2. Reads the pitch: "Why should Clients and Freelancers be on ConnecWrk?"
3. Sees Featured Assignments.
4. Clicks "**Register As a Freelancer**" if not registered.
5. Freelancer registers via **/register-freelancer/**.

6. Provides service area, skills, experience level, location, title/summary, long description, preferred email/phone.
 7. Freelancer browses assignments via **/search-projects/**.
 8. Filters by skill keywords, city/country, nature of assignment.
 9. Sorts results by "Latest assignment".
 10. Freelancer opens an assignment detail via **View Assignment** ($\rightarrow /project/?id=\{id\}$).
 11. Sees budget, duration, description, required skills.
 12. Sees "Place Your Bid" form with Bid Amount (₹).
 13. Submits bid.
 14. Freelancer tracks their activity:
 15. **/my-bid/** shows all bids and each bid's status.
 16. **/bookmarked-projects/** shows bookmarked gigs.
 17. **/interested-projects/** shows opportunities they expressed interest in.
 18. Freelancer can un-bookmark, un-interest, etc., to keep their pipeline clean.
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4. Screens / Pages in Detail

4.1 /freelancer-connect/ (Overview / Marketing Surface)

This page answers: "Why should Clients and Freelancers be on ConnecWrk?"

Top Hero Block Includes: - Big banner: "CONNECTING CLIENTS AND FREELANCERS ACROSS THE GLOBE". - Search bar (placeholder e.g. "Logo design or Marketing Consultant etc."). - CTA buttons: - **Post Your Assignment** (for clients). - **Register As a Freelancer** (for freelancers).

Benefits for Clients looking for Freelancers: 1. **Describe your assignment** - Post for free, describe the task, timeline, and expectations. 2. **Connect with freelancers** - Direct contact. You can receive offers/bids. 3. **0% Service Fee** - ConnecWrk does not charge a client-side service fee.

CTA under client benefits: "**Post Your Assignment**".

Benefits for Freelancers: 1. **Find Relevant Assignments** - Browse assignments that match your skill set. 2. **Connect Directly** - Message or bid directly — fewer layers. 3. **0% Commission** - Platform does not charge commission from freelancers.

CTA under freelancer benefits: "**Register As a Freelancer**".

Featured Assignments Section: - Card per assignment: - Owner mini-profile (avatar, name, category like "Web Development" or "Digital Marketing"). - Assignment title (e.g. "National pg college"). - Location (e.g. "Lucknow"). - Duration (e.g. "1 day", "3 days"). - Start Date (e.g. "23/08/2025"). - Button: **View Assignment** \rightarrow takes user to `/project/?id=\{assignmentId\}`.

Left Sidebar (Persistent Dashboard Sidebar While Logged In): - Profile card (avatar, user name, profile completion %). - Quick CTA: "If you are a Talent/Artist Create your profile and connect with clients \rightarrow " (cross-sell into Talent Connect). - Nav links: - MSME Connect - Freelancer Connect (current vertical) - Assignments - Talent Connect - MSME Jobs - Articles and Trivia

Why this matters for Connie (AI assistant): - When user asks "How do I start as a freelancer?", Connie can direct them to `/register-freelancer/` and explain why profile matters. - When user asks "How

do I hire someone?", Connie can direct them to </post-project/> and highlight 0% service fee and direct connection.

4.2 /register-freelancer/ (Freelancer Registration Form)

Purpose: Capture freelancer professional details so they can be searchable, contactable, and credible.

Form fields (all visible in UI): 1. **Your area of service offered *** (dropdown)** - The service category you provide. Example: Web Development, Digital Marketing, Printing Services, etc. 2. Your core skill sets are - **Input with helper text:** "Best to add up to 5 skill sets separated by a comma". - **Example:** "ReactJS, Landing Pages, Lead Gen Ads, SEO Copy, Social Ads". 3. ***Work experience level *** (dropdown)** - Example values: "Entry level experience", etc. 4. Work Location *** (text) - Free-text like "Mumbai, Maharashtra or Remote". 5. **Professional title that best describes your work *** (short summary headline)** - **Example:** "Experienced logo designer" or "Web developer with 10 years of experience". 6. My Areas of Expertise (Professional) (maximum 5000 characters) - **Long-form textarea**. You pitch yourself. 7. ***Email: where prospective clients can write to you ***** 8. Phone *** 9. **Consent checkbox** - "I agree to receive business enquiry through ConnecWrk platform." (marketing / lead routing opt-in)

Buttons: - Submit (green) - Cancel (text)

Validation expectations: - Required fields marked with ***** cannot be empty. - Email should be valid format. - Phone should be numeric/valid length. - Skill sets ideally comma-separated; backend may normalize into an array.

After submission: - Profile is stored. - Freelancer becomes discoverable on </freelancers/> for clients browsing talent. - Email/phone become lead targets for potential clients.

Connie guidance usage: - If a user says "Help me register as a freelancer," Connie should: 1. Ask which services they offer, what skills, and experience level. 2. Offer to draft a professional headline + 5000-char pitch. 3. Tell them they'll put that info into </register-freelancer/> and submit.

4.3 /freelancers/ (Search Freelancers)

Purpose: For clients to discover freelancers. For freelancers to see how they appear publicly.

Header Row Controls: - Search by name / text box. - Category dropdown filter. - Search button. - CTA "Register as a freelancer" (green) for unregistered talent.

Freelancer Cards: - Avatar placeholder. - Freelancer name (e.g. "Arvind Kumar Singh"). - Short tagline (e.g. "software development/technical skills"). - Primary category (e.g. "Software Development"). - Experience level (e.g. "Entry level experience"). - Big green button: **View Profile** (opens freelancer's public profile page; that URL is not shown here but assumed like </freelancer-profile/?id=...>).

Icons on cards: - Small plus / save icon in top-right corner of card (likely bookmark/contact action).

Top navigation band (just under global header): - "Overview" (active tab) - "Register As a Freelancer" - "Search Freelancers" (this current page) - "Search Assignments" - "Post Assignments" - "Manage Assignments"

This shared nav bar is consistent across the assignment-related screens, so users can hop between sourcing and managing work.

Connie usage: - If the client asks "Show me social media marketing freelancers in Delhi", Connie can: - Filter `/freelancers/` by category = Digital Marketing and/or search text "Delhi". - Explain that the result cards show name, skills, and a "View Profile" button.

4.4 /search-projects/?sortBy=latestproject&page=1 (Search Assignments / Browse Assignments)

Purpose: For freelancers to discover available, open assignments.

Search Bar / Filter Section ("Find Your Perfect Assignment") Fields: 1. **What? (assignment/task)** – free text (e.g. "SAP, marketing, sales, etc.") 2. **Where? (City or Country)** – free text (e.g. "Berlin, Vienna, Berne, etc.") 3. **Nature of Assignment** – dropdown (e.g. Part time, etc.) 4. **Search Assignments** – CTA button.

Sorting Control: - Dropdown near the results list: `Sort by: Latest assignment` (default).

Assignment Cards (List of All Assignments) For each assignment, we show: - Assignment Title (e.g. "National pg college", "Brochure, Sticker & Visiting Card Printing", "Google ads"). - Category (e.g. "Web Development", "Others: Printing Services", "Digital Marketing"). - Location (city, e.g. "Lucknow", "Gurugram", "delhi"). - Duration (e.g. "1 day", "3 days"). - Start Date (calendar icon + date). - Owner mini-profile: - Avatar placeholder - Owner name (e.g. "Kalpit Shukla") - Owner role/category (e.g. "Web Development", "Others", "Digital Marketing"). - Button: **View Assignment** → `/project/?id={projectId}`.

Pagination Controls: - `Back`, page number(s), `Next` (bottom of list).

Connie usage: - If freelancer asks: "Find part-time web dev work in Lucknow starting this month," Connie should: - Interpret filters: category="Web Development", location="Lucknow", nature="Part time". - Retrieve matching assignments from `/search-projects/`. - Offer the top few with title, start date, budget if available, and link.

4.5 /project/?id={id} (Assignment Detail + Bidding Screen)

Purpose: Deep dive into one assignment, and (for freelancers) submit a bid.

Top Section: "Your Bid" - "Manage your bid and milestones for this project" (contextual panel) - "Place Your Bid" - Input: **Bid Amount (₹)** → numeric input like `Enter bid amount`. - Button: **Place Bid**.

Center Section: Assignment Detail - Assignment Title (e.g. "National pg college"). - Posted Date (e.g. `Posted: 23/08/2025`). - Key Info grid: - Duration (e.g. `1 day`). - Start Date (e.g. `23/08/2025`). -

Nature of Assignment (e.g. **Part time**). - Assignment Category (e.g. **Web Development**). - Location of Assignment (e.g. **Lucknow, India**). - Estimated Budget (e.g. **INR 100**). - Preferred location of the freelancer (e.g. **Lucknow**). - Skills required (e.g. **Css and html**). - Description (long text): - Example: "Create a static website ... using HTML and CSS ... include a menu slider ... structured layout using divs and flexbox ... multiple pages ... proper use of CSS for layout, typography, and responsiveness ... clean design, effective page linking, and basic UI principles ... front-end development fundamentals."

Right Rail: Poster Info ("Posted By") - Mini card for the assignment owner: - Avatar placeholder. - Name (e.g. "Kalpit Shukla"). - Contact CTA such as **Send Enquiry** (email / message trigger). - Action icons under the poster card: - Bookmark icon. - Star / shortlist icon. (These represent the freelancer saving or favoriting the assignment.) - Advertisement block below.

Behavior / rules: - If user is a freelancer, they can submit a bid from here. - If user already bid, this panel should reflect existing bid amount + status instead of letting them submit again. - If the project is closed / no longer accepting bids, bid button should be disabled or replaced with "Bidding Closed".

Connie usage: - If user asks "What do I need to include in my bid?", Connie should: - Tell them to enter a reasonable Bid Amount in INR. - Suggest they clarify scope in follow-up chat with the owner (timeline, deliverables). - Remind them the owner can shortlist/approve/reject.

4.6 /post-project/ (Post an Assignment Form)

Purpose: For clients (or MSME representatives) to publish a new assignment.

Form Sections: - Assignment Details (title, category, etc.)

Fields (as seen on screen): 1. **Assignment Title** *** 2. Assignment Category *** (dropdown **Select**) 3. **Location Of Assignment - Country** *** (dropdown **Please select**) 4. Location Of Assignment - City *** (text or dropdown, required) 5. **Assignment Start Date** *** (dd/mm/yyyy, date picker) 6. Preferred Location Of The Freelancer *** (text input) 7. **Duration Of The Assignment** *** (dropdown, ex: **1 day**) 8. Estimated Budget Of The Assignment *** - **Amount** (numeric) - **INR** (currency selector, default INR) 9. **Description** *** (textarea, "Max 5000 Characters") 10. Skills *** (free text, "Comma Separated Skills") 11. **Nature Of Assignment Duration** *** (dropdown, ex: **Part time**, **Full time**, etc.) 12. Email Where Prospective Freelancers Can Write To You *** 13. **Confirmation Checkbox** - Text example: "I confirm that I am looking for a freelancer and I am authorized to post this Assignment on ConnecWrk. The Assignment can be deactivated if found in violation of Terms and Conditions of the platform."

Buttons: - **Save** (blue) - **Cancel**

Validation expectations: - Required (*) fields cannot be omitted. - Budget must be numeric and positive. - Start Date cannot be blank. - Email must be valid. - Duration / Nature of Assignment must be selected from allowed options. - Confirmation checkbox must be ticked to proceed.

After successful save: - Assignment is created in backend. - Assignment becomes available in search results (**/search-projects/**) and featured areas. - It appears under the owner's **My Assignment** tab in **/manage-projects/**.

Connie usage: - If client says "Draft an assignment for a brochure design job," Connie should: - Ask: title, category, location, start date, duration, budget range, required skills, contact email. - Produce a clean filled-out structure matching these fields, so the client can paste into `/post-project/`.

4.7 /manage-projects/ (Manage Assignments Dashboard)

Purpose: Central hub to manage everything related to assignments from one place. UI title: "**Manage Assignments**" with subtitle "View, edit, or delete all of your posted assignments from one place." and a button "**Post an Assignment**".

Tabs inside: 1. **My Assignment** - List of assignments YOU posted. - If empty: An illustration (folder icon) and message: "No assignments posted yet. All the assignments you post will appear here." and CTA: **Post Your First Assignment**. - From here, you can: - Edit / Update assignments - Delete assignments - View bidders / manage bids

1. My Bids

2. Shows all bids YOU have submitted to other people's projects.
3. Has a header like "My Bids – Track and manage all your project bids and milestones in one place." plus a `New Projects` button.
4. Tabs within "My Bids" include:
 - All Bids (0)
 - Pending (0)
 - Approved (0)
 - Shortlisted (0)
 - Rejected (0)
5. If empty: "No bids found. You haven't placed any bids yet. Start by finding projects that interest you." + CTA **Browse Projects**.

6. Bookmarked Assignments

7. Assignments you explicitly bookmarked.
8. Each project card: shows title, category, posted date, start date, duration, location, owner mini-profile (avatar, name, company/job title).
9. Has a **Remove** / trash icon button to un-bookmark.

10. If empty: friendly bookmark icon + "No bookmarked assignments" + CTA "Find Assignments".

11. Assignments I am interested in

12. Assignments where you clicked some "Interested" action.
13. This is effectively your "shortlist / pipeline" dashboard.
14. Empty state shows a star icon and message: "No interested assignments yet. When you show interest in an assignment, it will appear here." + CTA **Find Assignments**.

NOTE: Screenshots show /manage-projects/ with "My Assignment" tab active, and similar UIs for "Bookmarked Assignments" and "Assignments I am interested in" visible on related routes `/bookmarked-projects/` and `/interested-projects/`. The functionality is the same conceptually; some tenants expose them as independent routes, some as dashboard tabs.

Behavior: - On page load, we fetch data for the active tab from backend. - We render cards or show an Empty State if nothing is found. - User can navigate tabs without leaving the page (client-side routing) OR can hit dedicated URLs: - /manage-projects/ (My Assignment tab default) - /bookmarked-projects/ (Bookmarked Assignments) - /interested-projects/ (Assignments I am interested in) - /my-bid/ (My Bids)

Connie usage: - When user says "Show me my pipeline", Connie should summarize: - Posted assignments you own. - Active bids you placed and their status (Pending/Shortlisted/etc.). - Saved/bookmarked gigs. - Interested gigs. - Connie should also provide next-step suggestions, e.g. "This one starts in 3 days, you may want to follow up."

4.8 /my-bid/ (My Bids – focused view)

This is the same data shown under the "My Bids" tab in /manage-projects/ but presented as a standalone page.

Top region: - Title: "**My Bids**" - Subtitle: "Track and manage all your project bids and milestones in one place." - Button: "**New Projects**" (takes you back to browsing assignments). - Tabs: - All Bids (0) - Pending (0) - Approved (0) - Shortlisted (0) - Rejected (0)

Empty state: - "No bids found" - "You haven't placed any bids yet. Start by finding projects that interest you." - CTA: **Browse Projects** (go browse assignments).

Bid Status Meanings (from platform logic): - **Pending** - You placed a bid; client has not acted yet. - **Shortlisted** - Client liked your bid; you're under serious consideration. - **Approved** - Client accepted/approved your bid. - **Rejected** - Client declined your bid. - **Work Started** - (In other docs) The project has moved into execution. - **Delivered** / **Project Delivered** - Work is completed.

Connie usage: - If freelancer asks "Did any of my bids get shortlisted?", Connie should: - Filter My Bids by status Shortlisted. - Return them with assignment title, budget, next steps.

4.9 /bookmarked-projects/ (Bookmarked Assignments)

Purpose: A personal "favorites" list of assignments you want to monitor.

Card Layout per bookmarked assignment: - Category (optionmasterModel.optionName etc.). - Project Title. - Posted date (dateAdded). - Start Date (proStartDate). - Duration (proDuration). - Location/City (proCity). - Project Owner block: - Avatar. - First + Last name. - Job title. - Company name (formatted, e.g. **tech company** instead of **tech-company**). - Action button: - Trash icon + "Remove" to un-bookmark.

Empty state: - Bookmark icon. - "No bookmarked assignments". - Guidance + CTA "Find Assignments".

Behavior / expectations: - Clicking "Remove" immediately calls backend to delete that bookmark for the user. - On success: card disappears and UI toasts confirmation. - On failure: show error toast and keep the card.

Connie usage: - If user says "Remove the SEO project from my bookmarks," Connie should: - Identify the matching projectId in bookmarks. - Call the remove bookmark endpoint. - Confirm to the user.

4.10 /interested-projects/ (Assignments I am interested in)

Purpose: Track assignments where the freelancer explicitly said "I'm interested" (not just bookmarked).

Page Header: - Title: "**Manage Assignments**" - Subtitle: "View, edit, or delete all of your posted assignments from one place." (shared header component) - Navigation tabs visible: - **My Assignment** - **Bookmarked Assignments** - **Assignments I am interested in** (active)

Main panel (Empty State example): - Star icon illustration. - Headline: "**No interested assignments yet**". - Help text: "When you show interest in an assignment, it will appear here." / "When you show interest in an assignment, it will appear here." - CTA button: **Find Assignments** (go discover more projects).

When populated (expected behavior): - Each card should look similar to the bookmarked-projects cards: - Title, category, duration, location. - Start date. - Project owner block. - Quick link to view full assignment. - Action to "Remove Interest" (to clean up the list).

Purpose difference vs Bookmark: - **Bookmark** = "save this to review later". - **Interested** = "I am actively interested (lead-in-progress)". - This might be used to signal intent to the client or to surface you in analytics.

Connie usage: - If user says "Show me all assignments I marked as interested that are in Delhi," Connie should: - Filter interested list by `proCity === 'Delhi'`. - Return them.

5. Backend / API Layer Expectations

(This section informs Connie how to talk about backend behavior and guides engineers building retrievers / action functions.)

5.1 Authentication & Identity

All assignment-related actions that are user-specific (post, bid, bookmark, interested list, delete, etc.) require the user to be authenticated.

- The frontend must include a valid `Authorization: Bearer <token>` header when calling protected endpoints.
- If the token is missing/invalid/expired, backend should respond with an auth error and frontend should redirect to login.
- Connie should never expose raw tokens. Connie can say "You must be logged in to perform this action."

5.2 Typical Assignment APIs (Representative)

These are representative; actual URLs/methods may vary slightly. The assistant should match them when giving structured answers.

5.2.1 Get Assignments Posted by Current User

- **Endpoint:** GET /api/project/projectlisting
- **Purpose:** Fetch all assignments created by the logged-in user.
- **Query params:**
 - `page` (pagination, default 1)
 - `type=self` (filter to only user's own projects)
- **Success payload (representative):**

```
{  
    "success": true,  
    "data": [  
        {  
            "id": "project123",  
            "projectTitle": "Website Design Project",  
            "dateAdded": "2024-01-15",  
            "proStartDate": "2024-02-01",  
            "proDuration": "30 days",  
            "proCity": "New York",  
            "userModel": {  
                "firstName": "John",  
                "lastName": "Doe",  
                "profilePhoto": "profile.jpg",  
                "jobTitle": "Project Manager"  
            },  
            "optionmasterModel": {  
                "optionName": "Web Development"  
            }  
        }  
    ]  
}
```

Front-end usage: - Populates `My Assignment` tab in `/manage-projects/`. - Renders each assignment card and management actions.

5.2.2 Delete an Assignment Posted by Current User

- **Endpoint:** POST /api/project/deleteproject
- **Purpose:** Permanently remove one of the user's assignments.
- **Required:** Auth token.
- **Body params / request:**
 - `projectId` - ID of the project to delete.
- **Success response:**

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

- **Failure scenarios:**

- Invalid/missing token → auth error.
- Project ID not found or not owned by this user → permission denied / not found.

Front-end usage: - Triggered by clicking "Delete Assignment" in the management UI. - On success: remove card + show toast. - On error: keep card + show error toast.

5.2.3 Bookmark Assignment / Remove Bookmark

- **Endpoint (remove example):** POST /api/project/deleteprojectbookmark?projectId={projectId}
- **Headers:** Authorization: Bearer {user_token} .
- **Purpose:** Remove a previously bookmarked assignment.
- **Success response:**

```
{
  "success": true,
  "message": "Bookmark removed successfully"
}
```

Front-end usage: - Powers the trash/"Remove" button in /bookmarked-projects/. - After success, card disappears.

5.2.4 (Conceptual) Express Interest / Remove Interest

- Not explicitly shown, but /interested-projects/ implies we track "interest" events.
- We expect similar pattern:
 - POST /api/project/markInterested with { projectId } .
 - POST /api/project/removeInterested with { projectId } .
- These should store interest mapping between user and project.
- /interested-projects/ then queries this mapping to build "Assignments I am interested in".

5.2.5 (Conceptual) Search Assignments

- GET /api/project/search?

query=...&city=...&type=...&sortBy=latestproject&page=1
- Returns list of assignment summaries: title, category, duration, location, start date, owner info, etc.
- Drives /search-projects/ UI and Featured Assignments.

5.2.6 (Conceptual) Get Assignment Detail

- GET /api/project/detail?projectId={id}
- Returns full detail for /project/?id={id} :
- Assignment core fields (title, description, duration, start date, budget, etc.)
- Poster info (owner mini-profile)
- Whether the logged-in freelancer has already bid, bookmarked, or marked "interested".

5.2.7 (Conceptual) Place / Update Bid

- POST /api/bid/place

- Body might include `{ projectId, bidAmount, message? }`.
- On success:
- Creates bid record for this freelancer on this project.
- Then `GET /api/bid/myBids` (or similar) would populate `/my-bid/` and "My Bids" tab.

5.2.8 (Conceptual) Bid Status Lifecycle

Owner actions on bids: - Shortlist - Approve - Reject - Mark Work Started - Mark Project Delivered

Freelancer sees these states reflected in `/my-bid/` tabs and maybe inside `/project/?id=...`.

6. State / Status Management

6.1 Bid Status Codes

Typical status values (based on platform language and AI chatbot docs): - `0 Pending` - Bid submitted, awaiting client review. - `1 Approved` - Client has accepted the bid. - `2 Rejected` - Client declined the bid. - `3 Shortlisted` - You are under consideration. - `4 Work Started` - Project execution in progress. - `5 Approval Declined` - Some approval stage was declined by freelancer. - `6 Project Delivered` - Freelancer marked work delivered / job completed.

These codes/labels: - Power the filter tabs in `/my-bid/`. - Appear in Connie's explanations when the freelancer asks: "What happened to my bid?"

6.2 Work / Milestone Status Codes (context from bidder flows)

For each milestone under a project: - `0 Pending` - Not started yet. - `1 Completed` - Work finished. - `2 Rejected` - Owner rejected milestone deliverable. - `3 In Progress` - Work ongoing.

6.3 Payment Status Codes (context from bidder flows)

- `0 Pending` - Payment not made yet.
- `1 Completed` - Payment released to freelancer.
- `2 Rejected` - Payment declined.
- `3 On Hold` - Payment temporarily paused.

These milestone / payment states are especially relevant after a bid is **Approved** and execution begins.

6.4 Interested vs Bookmarked

We treat "Interested" and "Bookmarked" as separate states for the *same* assignment: - `Bookmarked`: I want to remember this, maybe evaluate later. - `Interested`: I am actively pursuing this. I might have contacted the client or I'm planning to bid.

Connie should respect that difference: - If user asks: "Which projects am I serious about?" → Connie should summarize the **Interested** list. - If user asks: "Which ones did I just save for later?" → Connie should summarize **Bookmarked Assignments**.

7. Error Handling & UX Expectations

7.1 API Error Handling

For any protected endpoint: - If `Authorization` is missing/invalid: - Frontend should show something like: "You must be logged in to perform this action." - Optionally route to login.

For destructive actions (delete project, remove bookmark, etc.): - If request fails: - Show toast: "Operation failed" or the backend-provided error message. - Do **not** visually remove the item from the UI.

For success actions (bookmark removed, project deleted): - Show confirmation toast: "Bookmark removed successfully" / "Project deleted successfully". - Immediately update UI: remove the card, or refresh list.

7.2 Empty States

Every tab/page in this module has a graceful empty state instead of a blank screen. They all: - Explain *why* the user is seeing "no data". - Offer a CTA to continue (e.g. "Post an Assignment", "Find Assignments", "Browse Projects").

Connie should reuse this guidance in replies. Example: - User: "Why is My Bids empty?" - Connie: "You haven't placed any bids yet. You can browse open assignments from `/search-projects/` and place a bid. Once you bid, it'll show here with status Pending/Shortlisted/etc."

7.3 Validation Errors (Posting an Assignment / Registering as Freelancer)

- Required fields missing → highlight that field, show inline message.
- Invalid email/phone → "Please enter a valid email/phone".
- Budget not numeric → "Enter a valid amount".
- Checkbox not accepted → block submission with a clear message.

Connie should mimic this logic if user asks "Why won't it let me post?" by checking: - Did you fill Assignment Title? - Did you pick a Category? - Did you set Country/City? - Did you enter Start Date, Duration, Budget, and Contact Email? - Did you tick the authorization box?

8. Connie (AI Assistant) – Retrieval / Reasoning Rules for Assignments

This section tells Connie how to behave when answering user questions or building flows.

8.1 Route Awareness

Connie must always be able to talk about these URLs: - **Freelancer marketing / landing:** `/freelancer-connect/` - **Register as a freelancer:** `/register-freelancer/` - **Browse freelancers:** `/freelancers/` - **Browse assignments:** `/search-projects/` - **Assignment detail:** `/project/?id={id}` - **Post an assignment:** `/post-project/` - **Manage assignments**

dashboard: /manage-projects/ - **My bids view:** /my-bid/ - **Bookmarked Assignments:** /bookmarked-projects/ - **Assignments I am interested in:** /interested-projects/

When a user describes a screen in natural language ("that's the page with 'Find Your Perfect Assignment' at the top"), Connie should map that to /search-projects/. When they mention "My Bids tab with Pending/Approved/Shortlisted" that is /my-bid/ (or the My Bids tab inside /manage-projects/).

8.2 Persona-Specific Guidance

When Connie talks to: - **A Client / Project Owner:** - Focus on posting assignments, reviewing bids, and managing applicants. - Push towards /post-project/ and /manage-projects/. - Mention 0% service fee and direct connection with freelancers.

- **A Freelancer:**
- Focus on discovering assignments, bidding, tracking bid status.
- Push towards /register-freelancer/, /search-projects/, /project/?id=..., /my-bid/, /bookmarked-projects/, /interested-projects/.
- Mention 0% commission.

8.3 Data Summaries / Status Explanations

Connie should: - Be able to summarize each assignment card (title, location, duration, start date, budget if available, and link). - Be able to explain bid status codes in human language. - Be able to describe next steps ("If you're Shortlisted, you should be ready to discuss scope, timeline, and price with the client").

8.4 Safety Boundaries for Connie

- Connie **must not** invent project budgets, emails, or phone numbers that are not actually present in provided context.
- Connie should not claim that payment is guaranteed or that ConnecWrk handles escrow unless explicitly specified in the data.
- Connie can guide how to fill forms, but it cannot actually submit bids or post projects itself (that is on the user / product UI).

9. Engineering Notes – How to Feed This to RAG

This module is dense and interconnected. To make Connie reliable:

1. Namespace design

2. Put this "Assignments Module" spec text into its own namespace (e.g. assignments_module).

3. Keep other verticals separate (msme_connect, talent_connect, etc.).

4. Chunking strategy

5. Chunk by page/route sections (e.g. /post-project/, /search-projects/, /project/?id=) so retrieval returns the relevant flow in one hit.

6. Keep status code mappings (Pending/Shortlisted/etc.) in their own dedicated chunk for precise retrieval when user asks "What does Shortlisted mean?".

7. Metadata to attach per chunk

8. `route` : e.g. "/search-projects/"
9. `persona` : "freelancer" / "client"
10. `content_type` : "flow", "form_fields", "api_ref", "status_codes", "error_handling"
11. `module` : "assignments"

12. Delta updates

13. When we change form fields or add a new tab in Manage Assignments, re-index only that updated chunk.

14. We do NOT need to rebuild all other chunks.

15. Query routing hints for Connie

16. If user mentions "bid", "shortlisted", "approved", "milestone", "payment status" → prefer `assignments_module` namespace.
 17. If user mentions "business page", "MSME visibility", "company profile" → prefer `msme_connect` namespace.
 18. If user mentions "speaker", "talent", "book an artist" → prefer `talent_connect` namespace.
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10. TL;DR Cheat Sheet (What Connie Must Be Able to Answer Fast)

- **"How do I post an assignment?"**

- Go to `/post-project/`, fill Assignment Title, Category, Country, City, Start Date, Preferred Freelancer Location, Duration, Budget, Description, Skills, Work Mode (Part time etc.), Contact Email, accept the authorization checkbox, hit Save. The assignment will then show in `/manage-projects/` under My Assignment and appear in `/search-projects/` for freelancers.

- **"How do I bid on an assignment?"**

- Go to `/search-projects/`, click `View Assignment` on something you like → `/project/?id=....`. On that page, enter Bid Amount (₹) in "Place Your Bid" and submit. Your bid will then appear in `/my-bid/` with status `Pending`, and may later become `Shortlisted`, `Approved`, etc.

- **"Where can I see all assignments I saved?"**

- `/bookmarked-projects/` shows "Bookmarked Assignments".
- `/interested-projects/` shows "Assignments I am interested in" (your active pipeline).

- `/manage-projects/` is the central hub with tabs for Posted Assignments, My Bids, Bookmarks, and Interested.

- **"What does Shortlisted mean?"**

- The client liked your bid and you're under consideration. You're not officially hired yet, but you're on the shortlist.

- **"What does 0% commission mean?"**

- According to the UI copy, ConnecWrk does not charge a commission from freelancers for using the platform, and does not charge clients a service fee for posting.

- **"How do I remove a bookmarked project?"**

- Go to `/bookmarked-projects/`, click the trash / Remove button. The system calls the remove bookmark API, and on success the project disappears from the list.

- **"Why is My Bids empty?"**

- You haven't placed any bids yet. Use `/search-projects/` to discover assignments and submit a bid. Once you bid, it'll show up in `/my-bid/` with a status like Pending, Shortlisted, etc.

End of Assignments Module Spec v1