InventorX Project Scope and Workflow

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Informed	
Objective	To define and finalise user flow and features
Due date	Oct 23, 2025
Status	IN PROGRESS

Introduction

Inventor X is a global digital platform that connects inventors, conceptors, and investors in one secure ecosystem for innovation exchange. It enables creators to publish, showcase, and sell their inventions through structured proposals or live auctions. With a modern, multilingual interface and integrated payment and communication systems, Inventor X aims to simplify invention commercialization while maintaining full intellectual property ownership for creators.

Must have:	 User registration & verification (Inventor / Conceptor / Investor) Invention submission, validation, and public gallery Proposal-based sale system (partial, total, royalties) Auction system (bidding, timer, bid history)
	 Internal messaging & negotiation feature Responsive UI with light/dark mode Admin panel for project moderation and user management Secure payment gateway (Stripe / Braintree integration) Multilingual support (Weglot – 5 initial languages)
Nice to have:	 Mobile app (iOS/Android) with notifications Visual refresh mechanism (modular UI updates every 4 months)

	Integration with IP/patent agencies and partner networks
Not in scope:	Anything that is not in this project document will be considered out of scope.

Timeline

To be updated later.

► Milestones and deadlines

Milestone	Owner	Deadline	Status

▼ Workflow

User	User Flow	Resources	Jira Epic	Status
Public User	 ♠ A. VISITOR FLOW — Detailed Breakdown ♠ Goal: Allow non-registered users (visitors) to explore inventions, investors, and auctions — giving them a preview of the platform's value before signing up. ♣ 1. Homepage (Landing Page) ↑ Purpose: To introduce Inventor X, showcase the most exciting inventions and investors, and invite visitors 			

to explore or register.

Page Elements:

Page Elements:		
Section	Description	
Header (Fixed)	Contains navigation menu: Homepage, Feasibility, Auction, Blog, About Us, Contact, Investors, and a Login / Register button. Remains visible while scrolling.	
Hero Section (Animated Carousel)	Automatically rotating carousel displaying featured inventions (transparent images) synced with inventor/investor profiles. Each slide shows: invention name, inventor name, and CTA → "View Project."	
Dynamic Counters	API-connected, showing real-time totals of: Inventors, Investors, Active Auctions. Example: "2,341 Inventors	
Quick Access Buttons	Two large call-to-action buttons: Explore	

	Auctions and Find Investors.	
Highlighted Blog Posts	Preview of the 2–3 most recent blog posts (thumbnail + short intro). Clicking opens the full blog article.	
Side Banners (Ads)	Left side = editable slogan or events. Right side = rotating premium ads (geo-located, e.g., showing local companies).	
Footer	Contains: social media links (Facebook, Instagram, X), privacy policy, terms of service, and contact info.	

∅ Interactions:

- Clicking an invention in the carousel → opens that project's public detail page.
- Clicking an inventor/investor name → opens their public profile preview page.
- Clicking a blog post → opens the Blog Detail
 Page.
- Scrolling automatically triggers animations (like counters increasing).

2. Auctions/Projects

Access Path:

From top menu.

Pa	ae: "	Inver	ntion	Galler	٧"
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@ Purpose:

Let visitors browse validated, public inventions before signing up.

Page Structure:	
Section	Description
Filter Bar (Top)	Dropdowns and checkboxes for: • Proposal Type (Partial, Total, Royalties) • Status (Available, In Negotiation, In Auction, Sold) • Country • Tags (Tech, Design, Energy, etc.) • Popularity / Date sorting For auctions: Filter by country, category, end date
Gallery Grid	Dynamic card layout showing inventions. Each card includes: • Project Image (with background removed) • Project Name • Status Tag • Country • Like • button (clickable without login) • "View Details" button In case of auctions: Cards showing: • Project image + name • Current bid • Remaining time • "View Auction" button.

	For completed auctions: Display of a completed auction with winner and participants (demo). One CTA button for 'Register to Bid'
Ads Between Sections	Every full page scroll inserts one rotating, geo-located ad.
Pagination / Infinite Scroll	As the user scrolls, more projects load automatically (infinite scroll).

∅ Interactions:

- Click "Like" → Heart icon fills; count increases (tracked via cookie/IP, no login).
- Click "View Details" → Opens Project Detail
 Page (public view).
- Apply filters → Gallery updates instantly.

Purpose:

Provide basic information about an invention while encouraging visitor registration for deeper access.

Section	Description
Project Header	Project name, inventor name, location, status tag (e.g., "Available").

Main Image + Gallery	Slideshow view of invention photos and videos.
Short Description	High-level concept overview.
Proposal Summary	Shows available deal types (Partial, Total, Royalties) but values are blurred or locked for unregistered visitors → CTA "Login to View Details."
CTA Buttons	"Register to Contact Inventor" and "Back to Gallery."
Similar Projects Section	Recommended inventions from the same category/country.

Access Path:

From menu bar.

Page: "Investor Directory"

@ Purpose:

To let visitors browse potential investors and see platform credibility.

Section	Description
Filter Bar	Search/Filter by: • Investor Name •

	Company Name • Country / City
Investor Cards Grid	Each card includes: • Investor photo (waist-up) • Name, country, city • Up to 3 company logos (clickable if public) • "View Profile" button
Ad Section	Rotating, geolocated advertising spots for local or related industries.

M Interactions:

- Clicking investor's name → opens Investor Full
 Profile (public preview).
- Clicking logo → redirects to company's official HTTPS site in new tab.
- Clicking "View Profile" → opens profile page with complete company list and bio.

Purpose:

To educate and engage users with content on innovation, patents, design, and tech trends.

- Blog listing grid (image, title, author, date, read time).
- Sidebar → Featured articles or partner ads.
- Blog detail page (individual post view).

★ 5. About & Contact Pages

About Us

• Mission, Vision, Team Intro, Platform Concept.

Contact Page

- Contact form (Name, Email, Subject, Message).
- Optional map embed + social media links.

6. Registration Prompt (Conversion Point)

Throughout the visitor journey, CTAs appear like:

- "Register to View Full Proposal."
- "Sign up to Bid."
- "Join to Message Inventors."

Each leads to the **Signup Page** with a role selection modal:

→ Inventor / Conceptor / Investor.

Inventor/Concepto r

★ B. INVENTOR / CONCEPTOR FLOW (Full Breakdown)

@ Goal:

Enable inventors or conceptors to **register**, **submit inventions**, **manage proposals**, **negotiate with investors**, **and sell through auction or direct deal**.

- 1. Registration & Onboarding
- Purpose:

To let the user create an inventor or conceptor profile and access their dashboard.

Page: "Signup / Registration Page"

Flow:

- 1. User clicks "Sign Up".
- 2. Chooses Role → Inventor / Conceptor /
 Investor (radio buttons or dropdown).
- 3. Fills a simple Registration Form:

Form Fields:

Field	Туре	Required	Notes
Full Name	Text	✓	Shown publicly on profile
Email	Email	V	Used for login + verification
Phone Number	Text		Required for two- step verification
Password	Password		Secure login
Location	Dropdown (Country)	V	Auto- detect if possible
Short Description	Text area	Optional	"Tell us about your work/intere sts"

4. Verification Step:

- Email / OTP sent to confirm authenticity.
- Once verified → user is redirected to Dashboard.

5. Social Login Options:

<u>Login via Google or LinkedIn (optional quick access).</u>

2. Dashboard Access

Purpose:

To view analytics and stats of the projects and products.

, profile, messages, and stats.

Page: "Inventor Dashboard"

Tabs/Sections:

Section	Function
Statistics	View counts, likes, sales metrics, bids, etc.

• 3. My Projects/Products

Purpose:

Main control panel for the inventor/conceptor to manage their inventions. Let inventor add and submit a new invention for validation.

My Projects:

Shows all inventions the user has created. Each card shows: image, title, status (Available, In Auction, Sold) and it will also show pending approval or rejected projects in a separate tab with admin comments.

There will be a 'Create new Project' button to start new project submission.

Page: "Create New Invention" Form

Form Fields for Projects:

Field	Туре	Required	Descriptio n
Project Name	Text		Title of invention

Main Image	Image Upload		Auto backgroun d removal via Remove.b g/ Cloudinar y API
Gallery	Image Upload (max 9)	Optional	Extra images for details
Videos	Video Upload (max 3)	Optional	Demos or 3D visuals
Description	Text Area		Full explanatio n of the invention
Date of Creation	Date Picker		When invention was completed or ideated
Documents Upload	File (PDF/DOC)		Two types: Technical Brief + Presentatio n Brief
Proposal Setup	Section		Choose selling structure (see below)

Proposal Setup (inside same page):

User sets how they want to sell:

- Partial Sale: Sell a portion (e.g., 20%) for a price.
- Partial + Royalties: Sell a portion + earn royalties per sale.
- Total Sale: Sell 100% ownership.

Each proposal has toggles:

• Firm / Negotiable

Example Input:

Type	%	Price	Royalty	Negotia ble
Partial + Royaltie s	20%	\$10,000	2%	V

✓ Validation Flow:

- 1. After submission, project goes to Admin review.
- 2. Admin checks:
 - Completeness of info
 - Image/video quality
 - Originality (surface-level)
- 3. If approved:
 - Project receives a "VALIDATED" badge/seal
 - Becomes visible on Public Gallery /
 Marketplace in auctions and projects page.
- 4. If rejected:
 - Returns to draft pending or rejected projects tab with comments from admin.
- 3.1. Proposal System (Post Validation)

Purpose:

To allow the inventor to create/edit pricing structures or ownership deals for investors.

Inventor can:

- Add multiple proposals (e.g., one total sale, one partial).
- Edit or mark one as default meaning it will show on the top.
- Set negotiation terms meaning if its firm or negotiable.

Displayed to investors on the project page once validated.

• 3.2 Project Management

Purpose:

To let inventor control the project's visibility and sales stage.

This page will have four tabs:

- 1. Auctions
- 2. Projects
- 3. Pending Approvals
- 4. Sales History
- Page: "My Projects"

Each invention has status options:

Status	Meaning
Available	Publicly listed, open for investor viewing
In Negotiation	Inventor and investor are chatting / deal pending
In Auction	Live bidding active
Sold	Transaction completed

Visual Indicators:

- "In Auction" → badge + countdown timer visible
- "In Negotiation" → grey tag
- "Sold" \rightarrow semi-transparent overlay with text:

"Successful Transaction"

• 3.3. If user selects Auction instead or project

Purpose:

To allow inventors to start an create and start an **auction** on their validated invention.

Page: "Activate Auction" Modal/Form

Form Fields:

Field	Туре	Required	Descriptio n
Invention Name	Text	V	Title of invention
Main Image	Image Upload		Auto backgroun d removal via Remove.b g / Cloudinar y API
Gallery	Image Upload (max 9)	Optional	Extra images for details
Videos	Video Upload (max 3)	Optional	Demos or 3D visuals
Description	Text Area		Full explanatio

			n of the invention
Base Value	Number (\$)	V	Starting price
Duration	Dropdown		Range 24 hours – 10 days
Bidder Visibility	Toggle		Public (anyone can see bids) / Hidden (only owner sees)

* Auction Flow:

1. Auction Launched →

- Project displays tag "IN AUCTION"
- Shows:
 - Current bid value
 - Number of bids
 - Time remaining
 - "Bid Now" button (for investors)

2. During Auction:

- Investors can bid (incrementally higher than base)
- They can also message inventor via internal chat

3. After Timer Ends:

- Highest bidder is declared winner
- Project automatically updates to:
 - "Sold via InventorX Auction"
- Project moves to Sales History,

Remains **publicly viewable for 10 days**, then archived. (ASK Client what does archived mean? deleted from both user and invention panel)

4. Messaging & Negotiation

Purpose:

Direct communication between inventor and potential investors.

Page: "Messages"

Features:

- · One-to-one chat threads
- Options:
 - Reply
 - Block
 - Report
 - Share Email (only if both users agree)
- Can attach documents or proposals
- Shows chat history and message timestamps

5. Profile Settings

Allow users to edit name, description, profile image, and change password.

Investor

C. INVESTOR FLOW

Goal:

Enable investors to discover, evaluate, and purchase or bid on inventions.

@ Purpose:

To create a verified investor identity that can interact with inventions and participate in auctions.

Page: "Investor Registration"

- Unified signup form with role selection (Inventor or Investor).
- If "Investor" is selected, show these fields:

Field	Туре	Notes
Full Name	Text	Mandatory
Email	Email	Mandatory, verified
Phone Number	Number	Mandatory, verified
Country	Dropdown	Based on global country list
City	Text	Optional
Profile Photo (waist-up)	Image Upload	Mandatory
Company Name(s)	Text	Optional — can add multiple
Company Logos	Image Upload	Paid Feature – Up to 3 logos visible on homepage card
Company Website(s)	URL	Must be HTTPS
Password / Confirm Password	Secure input	Or use Google/LinkedI n login

- Email/Phone Verification mandatory for messaging or bidding.
- Optional KYC Verification (for high-value bids).

2. A Dashboard & Profile Pages

After registration and login, investor lands on the **Investor Dashboard**.

Dashboard Tabs:

Tab	Description
Discover Inventions	Main gallery of validated projects.
Auctions	List of ongoing auctions (with filters).
Messages	Inbox for investor ↔ inventor chat.
My Bids	History of auctions they've participated in.
Saved / Liked	Projects they've liked.
Profile Settings	Edit investor info, company logos, password.

3. Q Browsing & Discovery

Page: "Invention Gallery"

This is the main marketplace page.

@ Purpose:

To help investors discover and filter inventions based on their interests or investment goals.

Filters (Top or Sidebar):

Filter	Function
Proposal Type	Partial Sale / Partial + Royalties / Total Sale
Status	Available / In Negotiation / In Auction / Sold
Country	Country of inventor
Tags	Based on invention category or tech field
Popularity	Most viewed, most liked, trending
Date	Newest to oldest or vice versa

Tabs:

- "Projects in Auction"
- "Most Popular This Week"
- · "Recently Added"

Gallery Card Layout:

Each project card shows:

- Main image (auto-background removed)
- Project name
- Short tagline / description
- Current status tag ("Available", "In Auction", "Sold")
- Like button
- "View Details" button

4. Project Detail Page (When Clicked)

Sections:

1. Header

Project name

- Validation seal (if approved)
- Status tag (Available / In Auction / Sold)

2. Gallery Section

- Main image carousel
- Additional 9 images + up to 3 videos

3. Description Section

- Creation date
- Inventor's short bio + country
- Tags / category

4. Documents Section

- Technical Brief (PDF viewer or download)
- Presentation Brief (PDF or embedded slides view)
- 5. **Proposals Section** (if proposal-based)

Type Offer Negotiable Action Partial 30% for \$5,000 Negotiable Message Inventor Partial + Royalties 25% + 3% royalties Firm Message Inventor Total Sale \$15,000 Negotiable Message Inventor

6. **Auction Section** (if auction is active)

- Base value
- Current bid amount
- Bid count
- Remaining time (countdown)
- "Place Bid" button (if verified)
- History of bids (if public)

7. Action Buttons

- W Like
- A Share
- A Follow (optional future feature)

5. Messaging & Negotiation

Page: "Messages"

Internal chat between inventor ↔ investor.

Features:

- Simple inbox layout.
- Message status (sent, read).
- Attachment upload (docs, images).
- Block / Report option for misuse.
- Email sharing only if both agree (safety feature).
- "Mark as Deal Finalized" when both agree on sale
 - → triggers payment flow.

6. Nation Flow (Detailed)

Page: "Active Auctions"

List of all live auctions.

Each Card Shows:

- Project title + image
- · Base value
- Current bid
- · Time remaining
- "View Auction" button

Auction Detail Page

Same as project detail page but focused on bidding.

Key Elements:

Section	Description
Current Value	Highest current bid
Number of Bids	Total bids placed
Remaining Time	Live countdown
Bid History	Visible if Public

Bidder Identity	Hidden/Public based on setting
Bid Button	Opens popup for placing new bid

Bid Modal:

Field	Туре	Notes
Bid Amount	Numeric	Must be > current bid
Confirm Bid	Button	Requires account verification
Bid Confirmation	Success toast + added to history	

When Auction Ends:

- Countdown = 0
- "Auction Closed" tag appears
- Winner displayed: "Sold via InventorX Auction to [Investor Name]"
- Project status updates to "Sold"
- Automatically removed from "Active Auctions" and shown under Investor → My Bids (Won)

7. = Sale Completion & Payment

Once investor and inventor agree (proposal-based or auction-based):

- System redirects to **Payment Gateway** (Stripe, PayPal, or local integration).
- 2. Both parties receive **confirmation receipt + transaction record.**
- 3. Project marked as **Sold** in system:

 Public gallery → shown overlay. Inventor's profile → permanently visible to 		
 Investor's dashboard → appears in "Purchased Inventions". 		
→ Optional Verifications	S	
Feature	Requirement	
Messaging / Bidding	Verified email & phone	
Bids above \$X	KYC or ID upload	
Payment Processing	Payment method verification	
Summary of Investor Flow) 1. Register as Investor -		
2. Browse Inventions in Gallery → Apply Filters		
3. View Project Details → Like / Message / Bid		
4. Negotiate Proposal or Place Bid in Auction		
5. Win Auction or Finalize Deal		
6. Make Payment → Project Marked Sold7. Project appears in "My Purchases" tab		
/. Project appears in liviy Purchases" tab		

Related links

Admin