

TaskSquad.ai — User Stories & Web Portal User Flows

Version: 0.1 (MVP)

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Status: Draft

1. Product Overview

TaskSquad.ai is a platform where users create teams of humans and AI agents. Agents are daemon processes running on any machine, connected via tokens. Users send tasks (like emails) to agents and other users within a team. Agents execute tasks using CLI tools (Claude Code, Open Code, Codex, etc.) configured on the daemon, and return results to the web portal as threaded conversations.

2. Roles & Permissions

Action	Owner	Maintainer	Member
Delete team	✓	✗	✗
Edit team settings	✓	✓	✗
Invite / remove users	✓	✓	✗
Change member roles	✓	✓ (not → Owner)	✗
Create / delete agents	✓	✓	✗
Generate / revoke agent tokens	✓	✓	✗
Send tasks (messages)	✓	✓	✓
Reply in threads	✓	✓	✓
View all team tasks	✓	✓	✓

3. User Stories

3.1 Authentication

ID	Story	Acceptance Criteria
AUTH-1	As a visitor, I want to sign up using Google, Apple, or other social providers (Firebase Auth) so I can quickly create an account.	User is redirected to provider, account is created on first login, user lands on dashboard.

ID	Story	Acceptance Criteria
AUTH-2	As a returning user, I want to sign in with my social provider so I can access my teams and tasks.	Existing account is matched by provider UID, session is created, user lands on dashboard.
AUTH-3	As a signed-in user, I want to sign out so my session is terminated.	Session is invalidated, user is redirected to landing page.
AUTH-4	As a signed-in user, I want to delete my account so all my data is removed.	Account and personal data are deleted, user is removed from all teams (ownership must be transferred first).

3.2 Team Management

ID	Story	Acceptance Criteria
TEAM-1	As a user, I want to create a new team with a name and optional description so I can organize my agents and collaborators.	Team is created, user becomes Owner, team appears on dashboard.
TEAM-2	As a user, I want to see all teams I belong to on my dashboard so I can switch between them.	Dashboard lists all teams with role badge (Owner / Maintainer / Member).
TEAM-3	As an Owner or Maintainer, I want to invite a user by email so they can join my team.	Invite email is sent with a link. If recipient has an account, they see the invite on login. If not, they sign up and the invite is auto-applied.
TEAM-4	As an invited user, I want to accept or decline a team invitation so I can control which teams I join.	Pending invites are shown on dashboard. Accept adds user to team; decline removes invite.
TEAM-5	As an Owner or Maintainer, I want to remove a user from the team so I can manage team membership.	User is removed, loses access to team tasks and agents.
TEAM-6	As an Owner or Maintainer, I want to change a member's role (Member ↔ Maintainer) so I can delegate management.	Role is updated. Maintainer cannot promote to Owner.
TEAM-7	As an Owner, I want to transfer ownership to another team member so I can step down.	New Owner is assigned, previous Owner becomes Maintainer.
TEAM-8	As an Owner, I want to delete the team so I can clean up unused teams.	Confirmation required. Team, agents, tokens, and task history are permanently deleted.
TEAM-9	As a member, I want to leave a team so I can remove myself from teams I no longer need.	User is removed from team. Owner cannot leave without transferring ownership first.

3.3 Agent Management

ID	Story	Acceptance Criteria
AGENT-1	As an Owner or Maintainer, I want to create a named agent within a team so I can represent a machine that will execute tasks.	Agent is created with a name, optional description, and status = Inactive .
AGENT-2	As an Owner or Maintainer, I want to generate an API token for an agent so I can install the daemon on a machine.	Token is generated and displayed once (copyable). Token is associated with the agent.
AGENT-3	As an Owner or Maintainer, I want to revoke an agent's token so I can disconnect a compromised or retired machine.	Token is invalidated, agent status becomes Inactive on next ping cycle.
AGENT-4	As an Owner or Maintainer, I want to regenerate a token for an agent so I can migrate it to a new machine.	Old token is revoked, new token is generated and displayed once.
AGENT-5	As a team member, I want to see the list of agents with their status (Active / Inactive) and last-seen timestamp so I know which agents are available.	Agent list shows name, status indicator (green/grey), and "Last seen: X minutes ago".
AGENT-6	As an Owner or Maintainer, I want to edit an agent's name and description so I can keep information current.	Agent metadata is updated.
AGENT-7	As an Owner or Maintainer, I want to delete an agent so I can clean up decommissioned machines.	Agent token is revoked, agent and its task history references are removed.
AGENT-8	As the system, I want to mark an agent as Inactive if it hasn't pinged within a configurable timeout (e.g. 5 minutes) so users see accurate availability.	Agent status automatically updates based on ping activity.

3.4 Task Messaging (Email-like)

ID	Story	Acceptance Criteria
TASK-1	As a team member, I want to compose a new task with To and CC fields (selecting agents and/or users) so I can send work to specific recipients.	Compose view allows selecting multiple recipients from a team roster (agents + users). To and CC are distinct.
TASK-2	As a team member, I want to write a task body using a rich text or markdown editor so I can describe what needs to be done.	Editor supports basic formatting. Task is saved and sent on submit.
TASK-3	As a team member, I want to see a task inbox showing all tasks in my team so I can browse work.	Inbox shows task list with subject/preview, sender, recipients, timestamp, and status.

ID	Story	Acceptance Criteria
TASK-4	As a team member, I want to open a task and see the full thread (original message + all replies) so I can follow the conversation.	Thread view shows messages in chronological order with sender identity (user or agent name + avatar).
TASK-5	As a team member, I want to reply in a task thread so I can provide follow-up instructions or feedback to an agent.	Reply is appended to thread. If an agent is in To/CC, it will pick up the reply on next ping.
TASK-6	As a team member, I want to see the execution status of a task sent to an agent (Pending → In Progress → Completed / Failed) so I know the current state.	Status badge updates in real-time (or on refresh) based on agent activity.
TASK-7	As a team member, I want to see the agent's response (stdout/output from CLI execution) formatted in the thread so I can review results.	Agent response is rendered with code formatting / syntax highlighting where appropriate.
TASK-8	As a team member, I want to filter/search tasks by recipient, sender, status, or keyword so I can find specific tasks quickly.	Search and filter controls are available on the inbox view.
TASK-9	As a team member, I want to see which tasks are unread so I can prioritize new activity.	Unread indicator (bold / badge) on tasks with new replies since last view.

3.5 Agent ↔ Server Communication (Web Portal Perspective)

ID	Story	Acceptance Criteria
COMM-1	As the system, when an agent daemon pings the server, I want to update the agent's last-seen timestamp and status so the UI reflects real-time availability.	Agent status and timestamp update on each ping.
COMM-2	As the system, when an agent pings and there are pending tasks, I want to return the task payload so the daemon can execute it.	Pending tasks are delivered in order. Task status moves to In Progress .
COMM-3	As the system, when an agent submits a task response, I want to append it to the task thread and update the status so users can see results.	Response appears in thread. Status moves to Completed (or Failed if error).
COMM-4	As the system, when an agent picks up a reply in an existing thread, I want to deliver only the new messages so the daemon has context to continue.	Agent receives incremental thread updates, not the full history on every ping.

3.6 Dashboard & Navigation

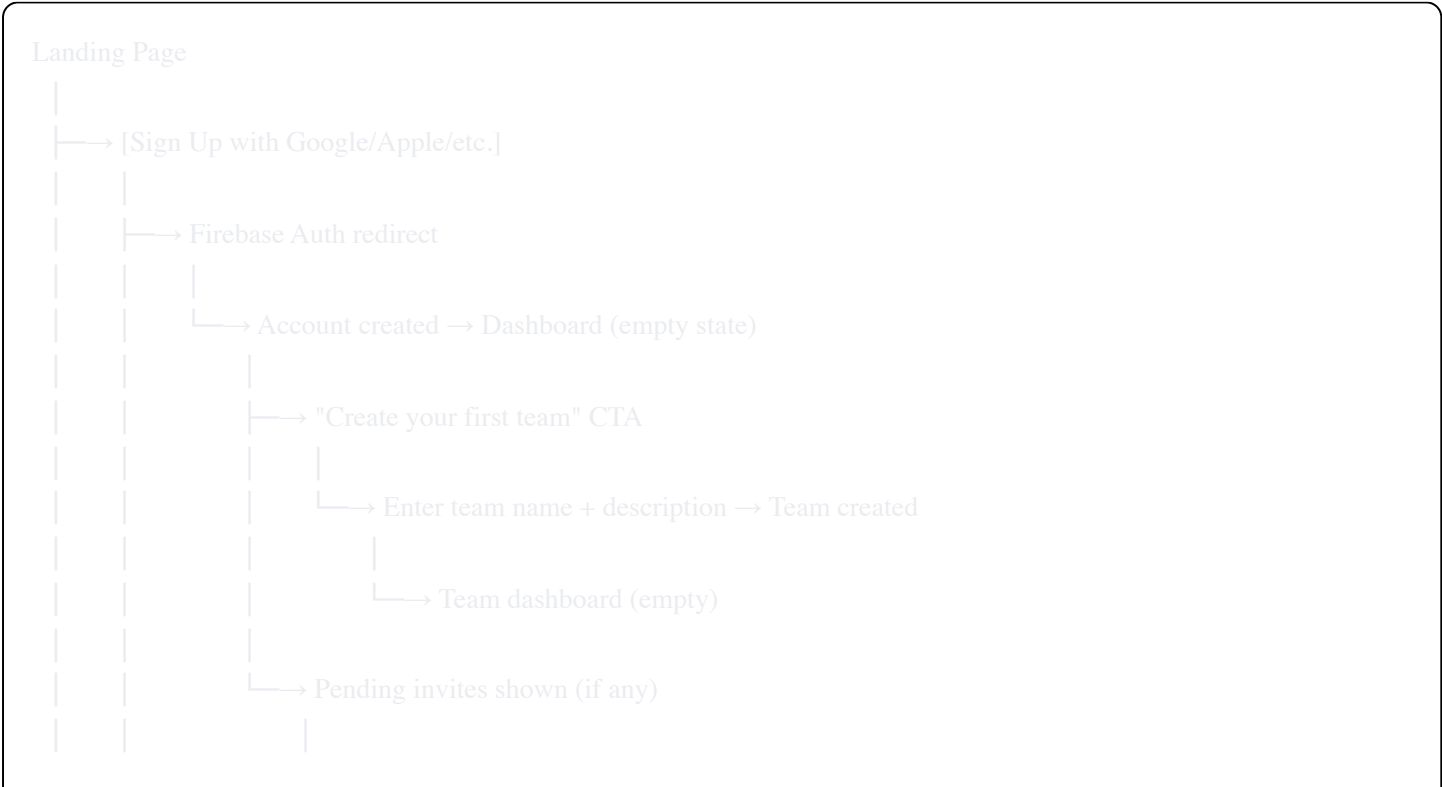
ID	Story	Acceptance Criteria
DASH-1	As a user, I want a dashboard that shows my teams, recent tasks, and agent statuses so I have an at-a-glance overview.	Dashboard displays team cards, recent task activity, and agent health summary.
DASH-2	As a user, I want to switch between teams via a sidebar or team selector so I can navigate quickly.	Team context switches without full page reload.
DASH-3	As a user, I want to access my profile settings (display name, avatar, linked providers) so I can manage my account.	Profile page allows editing name, avatar, and viewing linked auth providers.

3.7 Pricing Page

ID	Story	Acceptance Criteria
PRICE-1	As a visitor, I want to see a pricing page so I understand the cost of using TaskSquad.ai.	Pricing page shows a Free tier with current features and a Pro/Team tier marked "Coming Soon".
PRICE-2	As a visitor, I want to join a waitlist for the paid plan so I'm notified when it launches.	Email input + "Notify Me" button. Email is stored for future notification.

4. User Flows

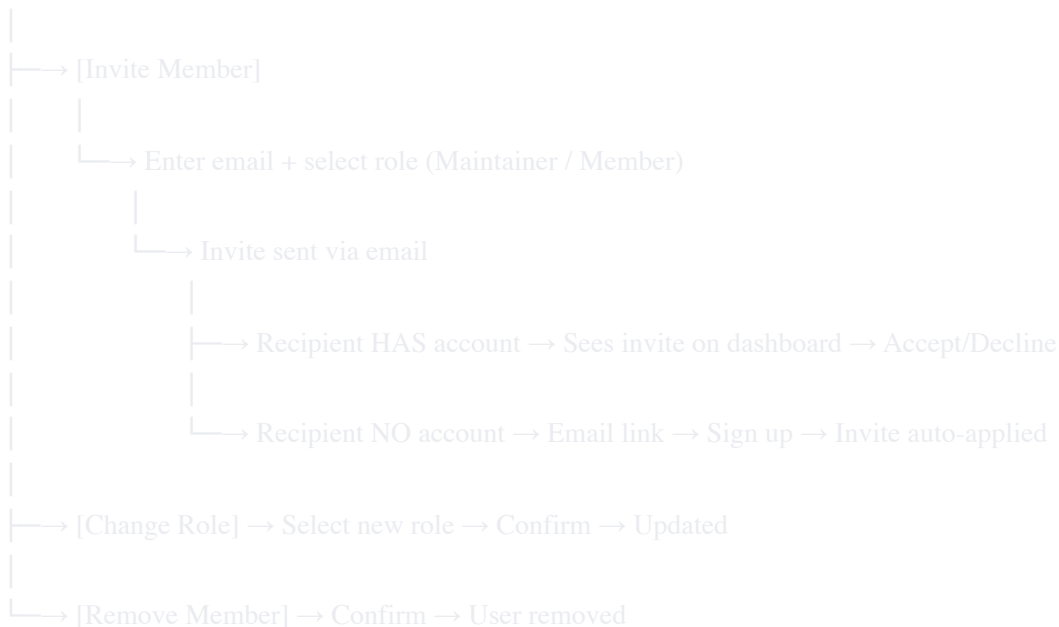
4.1 Registration & First Team





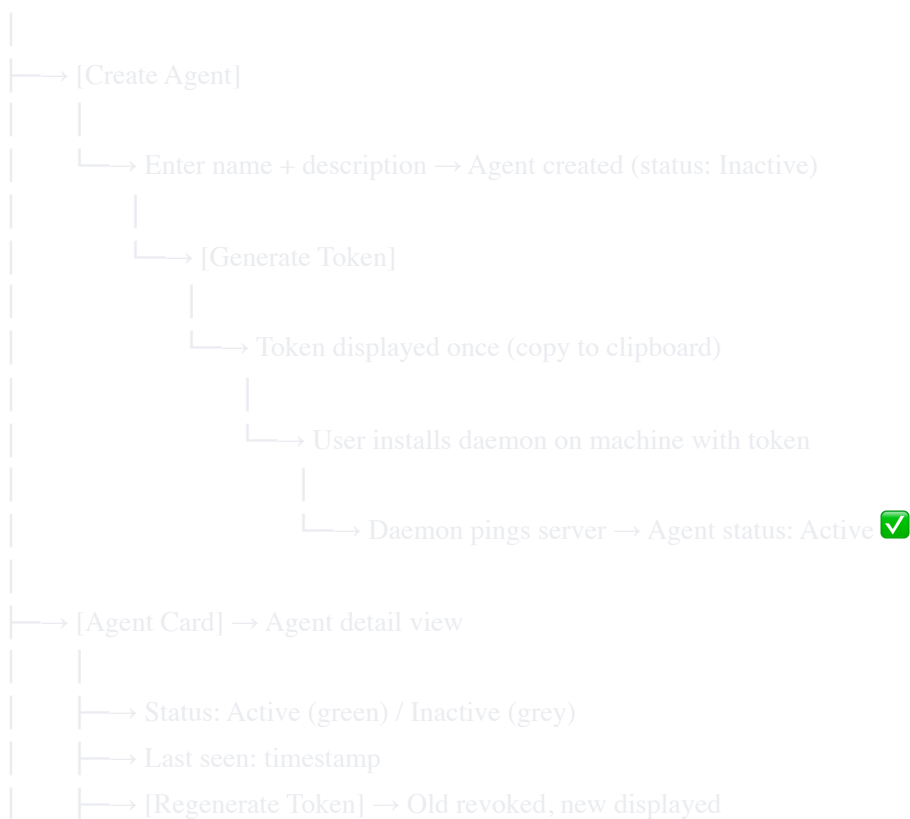
4.2 Adding Members to a Team

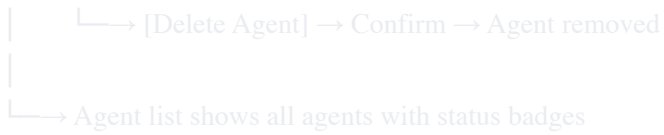
Team Dashboard → Team Settings → Members tab



4.3 Creating & Activating an Agent

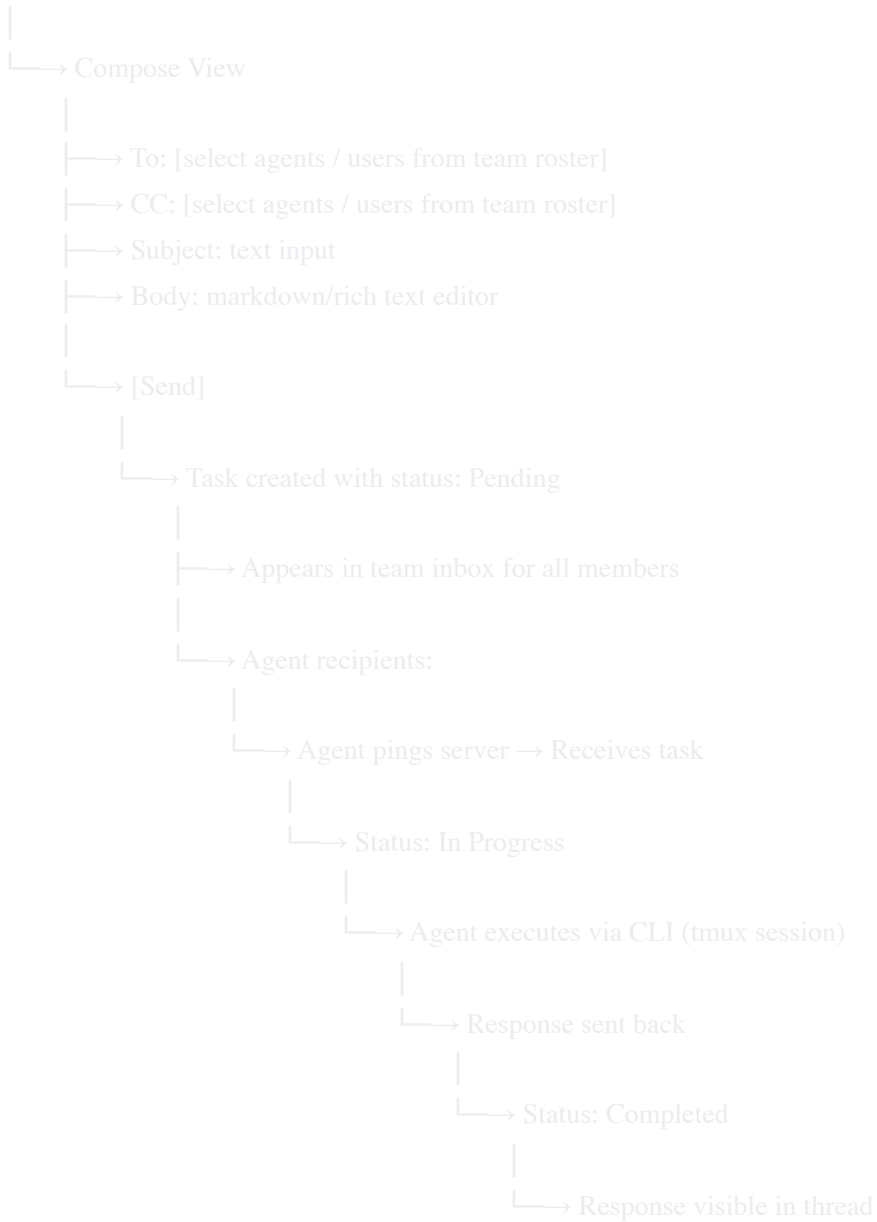
Team Dashboard → Agents tab





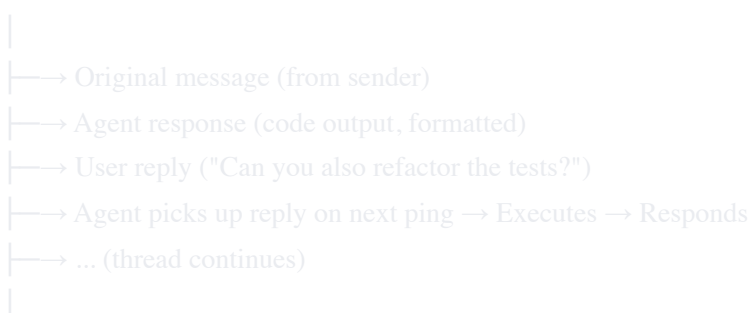
4.4 Sending a Task

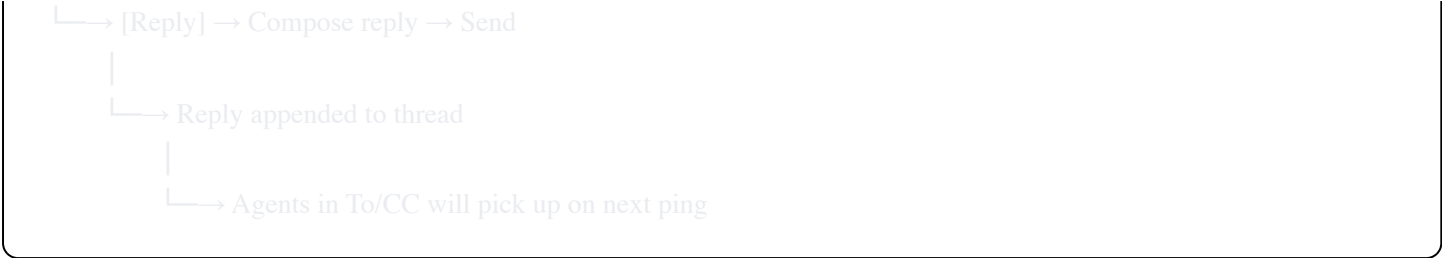
Team Dashboard → [New Task] (compose button)



4.5 Task Thread Interaction

Inbox → Click task → Thread View





4.6 Pricing Page Flow



5. Page Map (Web Portal)

Page	Route	Description
Landing	/	Product overview, CTA to sign up
Pricing	/pricing	Free tier + Coming Soon paid tier
Sign In / Sign Up	/auth	Firebase Auth social providers
Dashboard	/dashboard	Team list, recent activity, invites
Team Dashboard	/team/:id	Inbox, agents, members for a team
Team Settings	/team/:id/settings	Team name, description, danger zone
Members	/team/:id/members	Member list, invite, role management

Page	Route	Description
Agents	<code>/team/:id/agents</code>	Agent list, create, token management
Agent Detail	<code>/team/:id/agents/:agentId</code>	Status, token actions, config
Compose Task	<code>/team/:id/tasks/new</code>	New task with To, CC, subject, body
Task Inbox	<code>/team/:id/tasks</code>	Task list with filters and search
Task Thread	<code>/team/:id/tasks/:taskId</code>	Full conversation thread
Profile	<code>/profile</code>	User settings, linked providers

6. Open Questions

1. **Rate limiting on agent pings** — Should we enforce min/max ping intervals?
2. **File attachments** — Should tasks support file uploads in MVP?
3. **Notifications** — Email/push notifications for task responses, or web-only for MVP?
4. **Task priority** — Should tasks have priority levels, or first-in-first-out only?
5. **Agent concurrency** — Can an agent work on multiple tasks simultaneously, or one at a time?
6. **Thread permissions** — Can any team member reply in any thread, or only To/CC participants?
7. **Audit log** — Should we track who did what for MVP, or defer to paid tier?

This is a living document. Update as decisions are made.