CLEVERCOLLAB



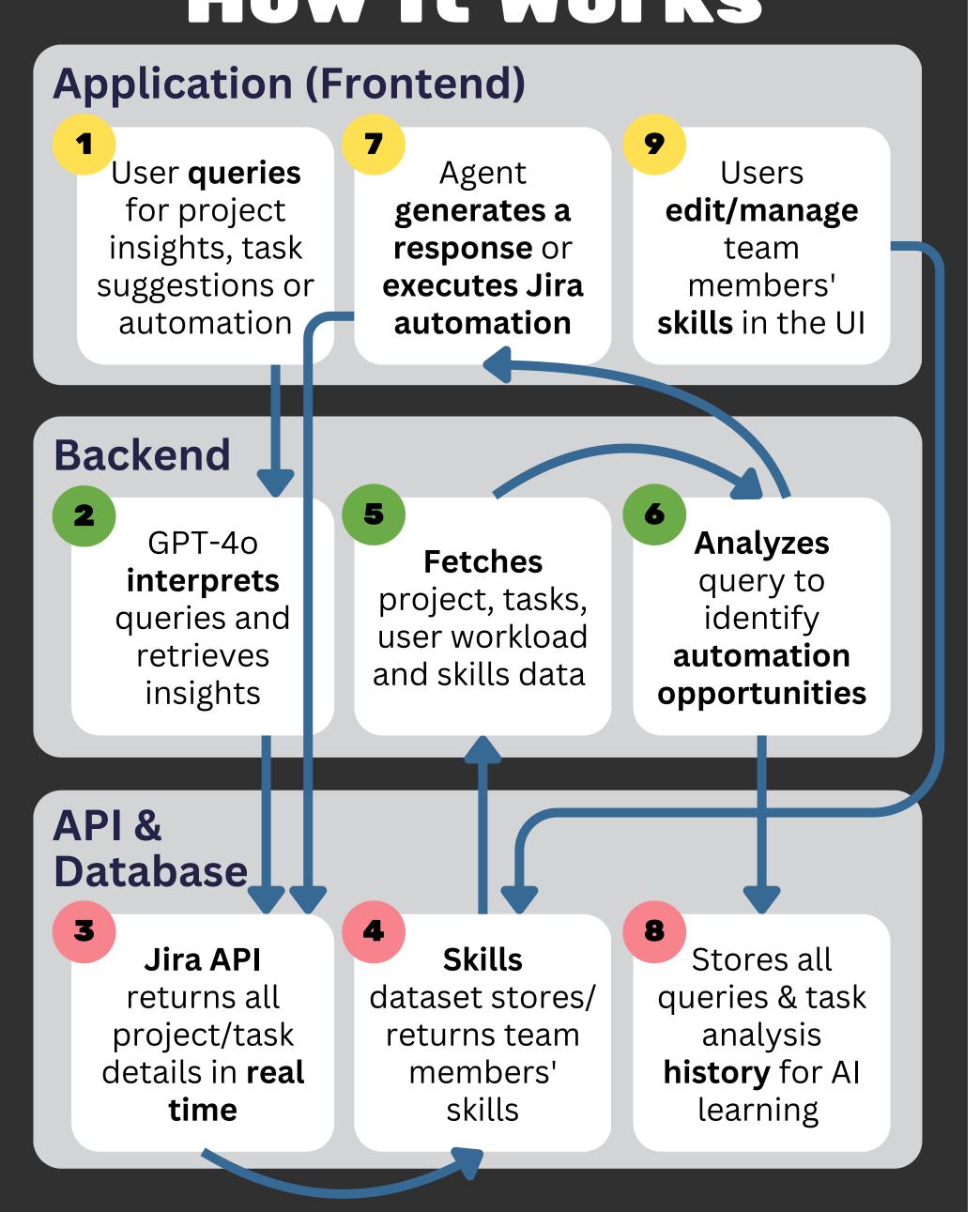
Autonomous AI Agent for Intelligent Project Management

What is CleverCollab

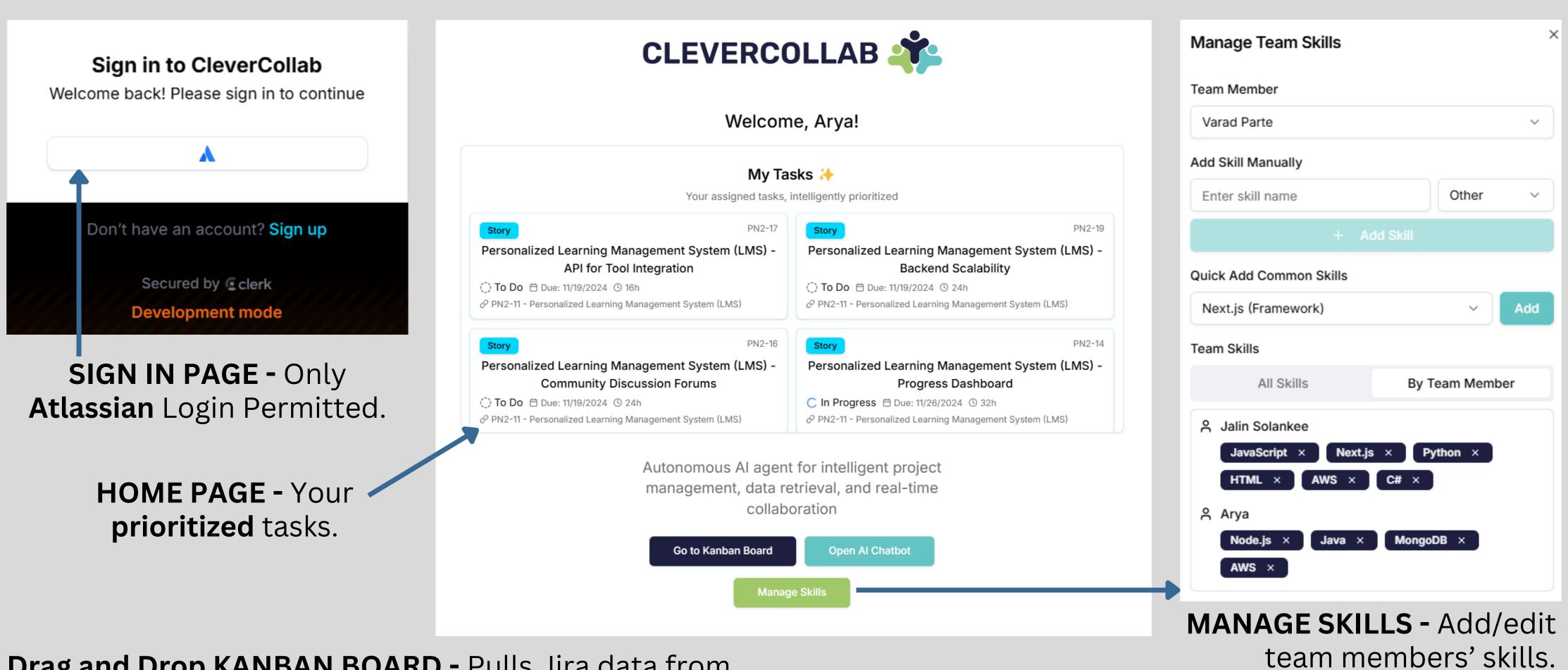
Managing projects require daily or weekly meetings where project managers gather updates, assess risks, and redistribute tasks to keep things on track. While these meetings are essential, they can be timeconsuming, especially when using traditional tools that lack the ability to dynamically adapt to shifting priorities, team availability, and evolving project demands. Our project aims to enhance this process.

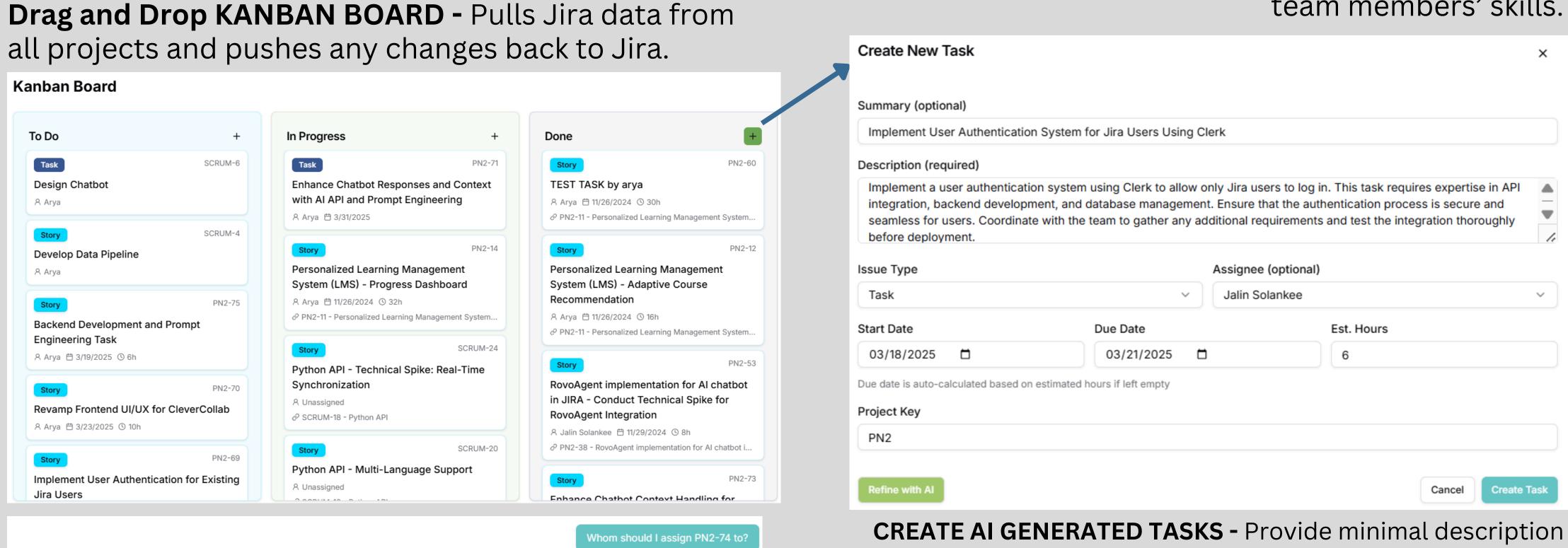
CleverCollab streamlines project management with one Al-powered app to handle task allocation, skill matching, and workload analysis using real-time data. It boosts productivity by hitting the sweet spot between automation & user control. Access is secure, ensuring only the organization can view its data. A builtin chatbot, powered by NLP, delivers answers to project-related queries, with no need for constant manual updates — the AI pulls fresh data with every query!

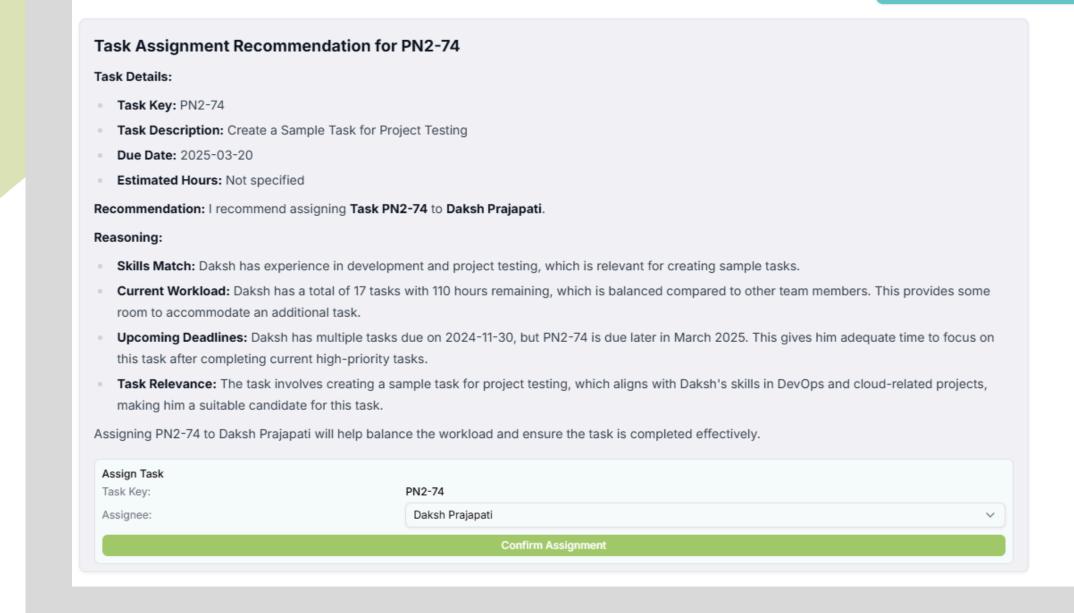
How It Works

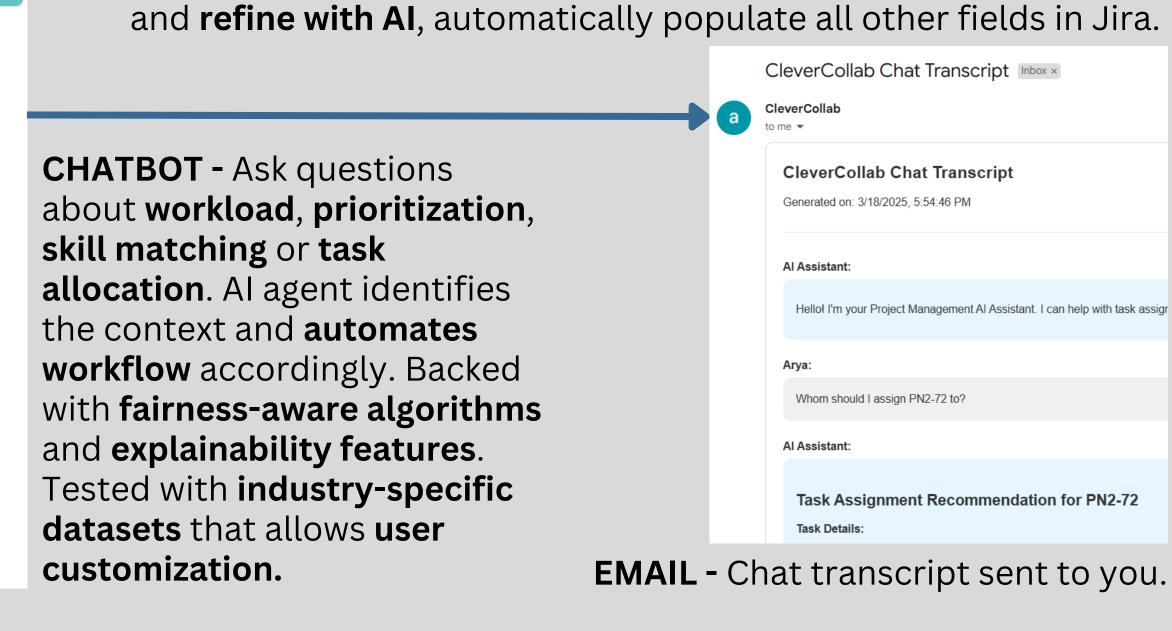


INTERFACES & FEATURES





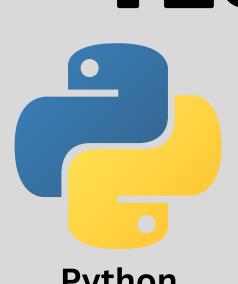


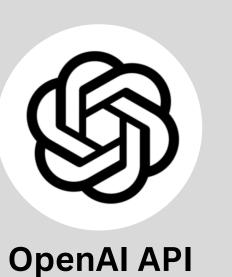


TECH STACK

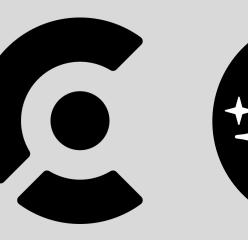


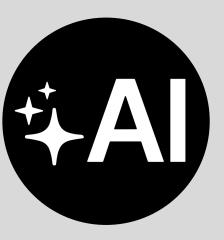














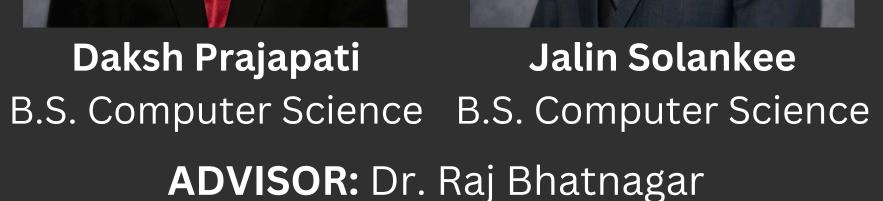
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ACCOMPLISHMENTS & IMPACTS

- Achieved an overall 80% accuracy rate in key project management functions
- Decision-making chatbot that offers real-time query processing and provides a reliable tool to identify conflicts and predict risks with confidence
- Al agent that automates workflows by creating new tasks, assigning them to the right team members based on skills and availability, and prioritizing tasks
- Not only benefits software development managers but also empowers teams across industries to manage projects more efficiently and proactively

CHALLENGES

- Al replies were slow & repetitive
- Task-to-user matching was inconsistent due to incomplete skill and availability data
- Al hallucinated due dates and miscalculated task timelines about past Jira issues
- Biased Al recommendations sometimes unintentionally favored certain users
- A generic AI model was ineffective for industry-specific project management needs

FUTURE WORK

- BACKEND: Reduce token usage, refine prompts, add tasks caching, store cached tasks in vector DB
- API: Extend integration support for other platforms such as Azure DevOps, Trello, and ServiceNow
- AGENT: Introduce a voiceenabled assistant
- Automate email responses for ticketing issues, status updates, and deadline reminders

CONTRIBUTORS