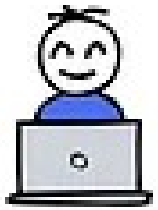
High-level blueprint for the system

Creating a system design blueprint for a chatbot that functions as a Scrum assistant and sends completed tasks to Trello involves several components. In the next slides is a high-level blueprint for the system

High-level blueprint for the system



New question

Chatbot Interface
(Slack, Teams,
Web Chat)

NLP Engine
(Llama)

Task Management
Module

Auth & Authz
User
(OAuth, JWT)

Database
(PostgreSQL,
MongoDB)

Trello
Integration
(Trello API)

Output Handler
(Formatting,
Response
Generation)

Notification
System
(Twilio, SendGrid)

Workflow with Llama Integration and Output Handling:

1. **User Interaction:**
    1. User interacts with the chatbot through their preferred platform (Slack, Teams, Web Chat).
    2. The chatbot sends the user input to the NLP engine.
2. **NLP Processing (with Llama):**
    1. The NLP engine processes the input using a Llama to understand the user's intent and extract relevant entities (e.g., task description, status).
3. **Task Management:**
    1. Based on the user's intent, the Task Management Module updates the task status, creates new tasks, or retrieves task information.
    2. If a task is marked as done, the Task Management Module triggers the Trello Integration.

4. Trello Integration:

1. The integration module updates the Trello board by creating or updating the relevant task cards.
2. It sends back confirmation to the Task Management Module.

5.Database Operations:

1. The database stores all necessary information, including user data, task details, and logs.

6.Output Handling:

1. The Output Handler formats the responses and prepares them for the Notification System or direct reply to the user through the Chatbot Interface.

7. User Notification:

1. The Notification System sends updates to the user about the task status, upcoming deadlines, or any other relevant information via Twilio, SendGrid, or other notification methods.
2. The chatbot sends a confirmation or relevant response back to the user through the Chatbot Interface.