**Design and Develop the User Interface:**

**🔹 Objective:**

To design and implement a user-friendly, responsive, and interactive interface for Health AI that allows users (patients, doctors, or medical staff) to engage with the assistant powered by IBM Granite. The goal is to make healthcare interaction intuitive, fast, and intelligent.

**🔹 Role of the User Interface in Health AI**

The UI is the front door to Health AI. It allows users to:

* Ask health-related questions
* Input symptoms
* Upload or view medical records
* View AI-generated responses
* Schedule appointments or summaries

A clean and well-organized UI enhances trust and usability in a sensitive domain like healthcare.

🔹 **Design Goals**

| Goal | Description |
| --- | --- |
| 🔹 Simplicity | Easy for non-technical users (patients) to use |
| 🔹 Clarity | Clearly separated sections for different tasks (Q&A, summary, scheduling) |
| 🔹 Accessibility | Support for screen readers, keyboard navigation |
| 🔹 Responsiveness | Mobile-friendly and fast |
| 🔹 Privacy First | No unnecessary data shown; secure interaction |

**🔹 Core UI Features**

✅ 1. Chat Interface (Main Area)

* Textbox for user queries (symptom, question, etc.)
* Send button
* Display area for IBM Granite's response

✅ 2. Task Selector

* Dropdown or toggle to choose the task:
  + Symptom checker
  + Medical Q&A
  + Summary generator

✅ 3. File Upload (Optional)

* For uploading EHRs or medical notes (used in summarization)

✅ 4. Response Display

* Clearly shows the assistant's response
* Includes loading indicators while Granite processes

✅ 5. User Role Selector

* Patient, Doctor, Admin
* Could be part of login or access control system

**🔹 Technologies for UI Development**

| Stack | Description |
| --- | --- |
| Frontend Framework | React.js (preferred) or simple HTML/CSS/JS for fast prototyping |
| Styling | Tailwind CSS / Bootstrap for clean and responsive layout |
| Interaction with Backend | Axios or Fetch API to call app.py endpoints |
| Hosting | Can be deployed on IBM Cloud, Netlify, or Vercel |

**🔹 Sample UI Layout**

markdown

CopyEdit

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| Health AI: Your Intelligent Healthcare Assistant |

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| Task: [Symptom Checker ▼] | Role: [Patient ▼] |

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| Please enter your question or symptoms below: |

| [ I have had a headache and fever for 2 days ] |

| [Send] |

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| AI Response: |

| "You may be experiencing a common viral fever..."|

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**🔹 Deliverables from This Milestone**

* Working React or HTML/CSS/JS-based frontend
* Chat interface with dynamic task handling
* API integration with app.py backend
* Input validation and loading/error states
* Responsive design for mobile and desktop

Top of Form

Bottom of Form