

K_1 - SE_2

Perfect. Here's a **complete set of functionalities + frontend UI page ideas** that your Next.js developer can start working on **in parallel**. Each feature is mapped to a **UI page**, with suggestions on **layout, content, and API endpoints** it connects to.

OVERALL FRONTEND FLOW (Next.js App)

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Home → Register/Login → Upload Resume → Select Job Role → AI Interview Page (Q&A + Webcam) → Feedback Per Q → Final Report Page → Dashboard (Progress History)
```

FUNCTIONALITY-BY-FUNCTIONALITY FRONTEND GUIDE

1. User Login / Register Page

Feature	Details
Auth	Basic form-based or Google OAuth
UI Ideas	Minimal form: name, email, password, continue with Google
Integration	(Optional backend JWT auth; can be mocked for now)

2. Resume Upload Page

Feature	Upload resume (PDF), extract info
UI Layout	File drag-drop or file selector

Feature	Upload resume (PDF), extract info
Form	After upload, show: name detected, job role (dropdown), company (input)
Button	→ "Generate Interview Questions"
Endpoint	POST /upload-resume/{user_id} → returns resume ID
Endpoint	POST /generate-questions/{user_id}/{resume_id}

Example Design:

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+-----+
| 📄 Upload your Resume (.PDF) |
| [Choose File]                |
| [Job Role Dropdown]          |
| [Company Name Input]         |
| [Generate Interview]         |
+-----+
```

♦ 3. AI Interview Page (Q&A + Webcam)

Feature	Show one question at a time + Webcam record
Layout	Split screen: Left: Question text. Right: Webcam view.
Button	👤 Start Recording → Stop → Submit
Endpoint	GET /next-question/{session_id}/{q_num}
Endpoint	POST /analyze-stress/{session_id}/{q_num}
Endpoint	POST /submit-answer/{session_id}/{q_num}

Design Tip:

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+-----+
| Q1 of 9: "Explain your last ML project." |
|                                           |
| [Webcam View] [👤 Record / Stop]         |
| [Submit Video] [Submit Answer (optional)]|
+-----+
```

◆ 4. Per-Question Feedback Panel

Feature	Show stress level, emotion, and basic tips
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UI	After submitting each question, show:
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- Stress Score: 72/100
- Stress Level: High
- Emotion Detected: Fear
- Tip: "Slow down. Take pauses when answering long questions."

Design Suggestion:

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```
🧠 Emotion: 😨 Fear
🔥 Stress Score: 72%
⚠️ Tip: Breathe and try to slow your pace before answering.
```

◆ 5. Final Report Page

Feature	Summarized AI feedback from whole interview
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Endpoint	GET /final-report/{session_id}
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Shows

- Score per category (Technical, HR, Stress Handling)
- Overall Confidence/Stress Graph
- AI Recommendations (e.g., "Practice situational questions.")
| Download | Option to download PDF


Example Layout:

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 Final Interview Summary

 Scores:


- Technical: 7.5/10
- HR: 6.0/10
- Stress Management: Moderate
- Surprise Q: Good Adaptability

 Graph: Confidence vs Questions

 Recommendation:

"Improve articulation under pressure and strengthen project storytelling."

◆ 6. User Dashboard Page

Feature	Track all past sessions and show progress
Endpoint	GET /user-summary/{user_id}
Shows	<ul style="list-style-type: none"> • List of past interviews with date • Stress improvement trend graph • Area-wise performance (e.g., Tech: , HR: ) Button View Report (→ Final Report Page)


Design Example:

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 John | Sessions: 5

 Avg Stress ↓ 18%

 Best Domain: Technical

[Session 1 - April 10] [ View Report]

[Session 2 - April 15] [ View Report]

◆ 7. Admin Page (Optional)

Feature	View all sessions (for demo/testing)
Endpoint	GET /admin/sessions
Table	session_id, user_id, created_at, stress_avg

COMPONENTS TO BUILD (Frontend Dev Checklist)

Component	Description
ResumeUploader	Drag-drop + input form
JobRoleSelector	Dropdown with roles
InterviewPlayer	Q&A + camera recorder
QuestionCard	Displays current Q
StressFeedbackCard	Shows feedback after each answer
FinalReport	Overall results summary UI
DashboardCard	Past session data + charts

🔧 TOOLS TO USE

Feature	Tool
API calls	Axios or Fetch
Webcam Recording	<code>react-webcam</code> , <code>MediaRecorder</code> API
Charts (optional)	<code>chart.js</code> , <code>recharts</code>
PDF Export (optional)	<code>jspdf</code>
UI Kit (optional)	Tailwind CSS or Chakra UI

🧪 Test Flow for Frontend Developer

1. Resume Upload → Show extracted job role and name
2. Call `generate-questions` → Start session
3. For each Q:
 - Show question
 - Record answer
 - Submit video → Show feedback
4. After all Qs → Go to Final Report
5. Dashboard → List past sessions and trends

Would you like me to provide:

- ☒ Wireframe illustrations for each page?
- ☒ Dummy JSON responses to test each page offline?

You're building a solid **AI interview coach platform**. Your frontend dev can now proceed in parallel 🤝