Project Roadmap: Tidy Interview Monitoring Tool

# 🌐 Vision

To develop a next-generation, AI-powered interview monitoring assistant that not only tracks facial behaviors in real-time but also intelligently detects behavioral patterns and content integrity, enabling organizations to conduct unbiased, secure, and cheat-resistant remote interviews.

# 📈 Project Phases & Timelines

## Phase 1: Base Tool Development (July – September 2025)

Tasks:

* - Set up Streamlit UI and static components
* - Implement file upload and video reader logic
* - Integrate MediaPipe for face tracking
* - Create session summary and raw data logs
* - Test different video input formats (.mp4, .avi, .mkv)

## Phase 2: Zoom Bot Integration (October – December 2025)

Tasks:

* - Create Zoom bot using Zoom SDK & OAuth
* - Implement meeting auto-join via calendar sync
* - Enable live video feed capture for analysis
* - Send post-session report via email to admin
* - Comply with Zoom TOS and user consent policies

## Phase 3: Pattern Detection Enhancements (January – March 2026)

Tasks:

* - Refactor logging system to include time-sequenced facial behavior
* - Design pattern recognition engine (rule-based)
* - Define key patterns like consistent gaze or face absence
* - Enable pattern explanation in reports
* - Unit test with synthetic pattern datasets

## Phase 4: AI Answer Detection (April – June 2026)

Tasks:

* - Implement Whisper or Google STT for Q&A transcription
* - Connect with GPT-4, Gemini, Claude APIs for answer generation
* - Use semantic similarity scoring via Sentence-BERT
* - Define AI match confidence threshold
* - Log flagged responses and confidence scores

## Phase 5: Web Dashboard + Email Reports (July – September 2026)

Tasks:

* - Develop login-protected React/Angular dashboard
* - Integrate report listing, filtering, and search by session ID
* - Add download/export options (.pdf, .txt)
* - Configure email notification logs and resend feature
* - Ensure role-based access (admin vs reviewer)

## Phase 6: ATS Integration + Privacy Controls (October – December 2026)

Tasks:

* - Implement connectors for ATS platforms (Greenhouse, Lever)
* - Enable job-based auto-scheduling of Tidy bot
* - Provide toggles for privacy: AI check, camera-only mode
* - Add consent capture with audit logs
* - Implement admin controls for disabling modules