

Week 1 – Foundations & Planning

Will (Infra + Full-Stack)

- Provision GPU cloud environment (A100/H100) for model hosting.
- Set up backend project structure (FastAPI + API endpoints scaffold).
- Create React/Tailwind frontend skeleton (routing, base components).
- Implement basic document upload & parsing pipeline (no AI yet).

Javad

- Research dataset sources and define JSON slide schema.
- Draft data generation plan (GPT-4 + manual curation).
- Create small sample dataset for format validation.

Jenny

- Design wireframes for main flows (upload, outline, preview, export).
- Create branding kit (colors, typography, logo).

Week 2 – Data & Core Model

Will

- Integrate document→outline API endpoint (placeholder model).
- Implement frontend outline preview with editing UI.
- Set up image API integration for placeholder visuals.

Javad

- Generate bulk dataset (document→slide pairs).
- Clean & format dataset to match JSON schema.
- Start LoRA fine-tuning experiments on gpt-oss-20b.

Jenny

- Finalize 3–5 slide templates.
 - Prepare icons, backgrounds, and sample theme assets.
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Week 3 – Multi-Agent & Model Integration

Will

- Implement multi-agent orchestration (Outline → Content → Beautify → Visual).
- Deploy first fine-tuned model to cloud and integrate into backend API.
- Add PPTX/PDF export functionality in frontend.

Javad

- Evaluate fine-tuned model vs. base model (metrics: JSON validity, edit reduction).
- Iterate on fine-tuning with feedback from integration tests.
- Package model for production inference.

Jenny

- Deliver final UI assets and template mapping specs.
 - Prepare animations and UI polish details.
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Week 4 – Optimization & Demo Prep

Will

- Optimize backend for latency (batching, caching).
- Finalize frontend styles with UI/UX designer's assets.
- Set up staging URL for judge testing.
- Record fallback demo flow in case of live issues.

Javad

- Finalize evaluation report with quantitative improvements over base model.
- Assist in creating demo scenarios that highlight model advantages.

Jenny

- Review final build and adjust design details.
- Help prepare marketing visuals for hackathon submission page.

Integration Points

- **End of Week 2:** First frontend→backend pipeline working with placeholder outputs.
- **Mid Week 3:** Fine-tuned model plugged into pipeline.
- **End of Week 3:** Multi-agent + export fully functional.
- **Week 4:** Purely polish, optimize, and rehearse demo.