**Weekly Progress Report**

**Week 1: Planning & Setup**

**Apurba**

* **Organized team kickoff meeting & defined project scope**
* **Created shared Google Drive for docs and Gantt chart**
* **Researched phishing trends for literature review**

**Hemant**

* **Scheduled weekly meetings & set communication channels**
* **Compiled free APIs (Google Safe Browsing, PhishTank)**
* **Drafted initial problem statement**

**Aman**

* **Proposed simple tech stack: Next.js + Node.js + PostgreSQL**
* **Researched open-source phishing datasets**
* **Sketched basic system architecture**

**Sanjeev**

* **Collected 10+ relevant cybersecurity papers**
* **Set up Zotero for reference management**
* **Started literature review matrix**

**Week 2: Core Setup**

**Apurba**

* **Set up Node.js backend with Express**
* **Designed PostgreSQL tables (users, scans)**
* **Documented API requirements**

**Hemant**

* **Built Next.js frontend skeleton**
* **Created login/signup pages**
* **Tested API connectivity with Postman**

**Aman**

* **Integrated PhishTank API for URL scanning**
* **Configured SSL certificate checker**
* **Drafted metadata display plan**

**Sanjeev**

* **Analyzed phishing email samples**
* **Identified red flags (urgency, threats)**
* **Expanded literature review**

**Week 3: URL Scanner**

**Apurba**

* **Implemented VirusTotal API integration**
* **Added scan history logging**
* **Wrote backend error handlers**

**Hemant**

* **Developed URL input form (frontend)**
* **Designed scan result display**
* **Added loading states**

**Aman**

* **Built WHOIS/IP lookup feature**
* **Implemented domain age calculator**
* **Tested subdomain analysis**

**Sanjeev**

* **Defined threat scoring criteria**
* **Researched punycode detection**
* **Drafted dashboard requirements**

**Week 4: Dashboard**

**Apurba**

* **Created scan history API endpoint**
* **Implemented data pagination**
* **Set up dashboard routes**

**Hemant**

* **Built dashboard UI with Charts.js**
* **Added metadata visualization**
* **Made responsive for mobile**

**Aman**

* **Developed red-flag detector**
* **Implemented SSL expiry alerts**
* **Optimized query performance**

**Sanjeev**

* **Prepared phishing case studies**
* **Defined training quiz outline**
* **Updated references**

**Week 5: Email Scanner**

**Apurba**

* **Built email content analysis API**
* **Added keyword highlighting**
* **Implemented threat scoring**

**Hemant**

* **Created email paste interface**
* **Designed threat scorecard UI**
* **Added copy-to-clipboard feature**

**Aman**

* **Integrated keyword detection**
* **Set up email scan logging**
* **Tested with sample phishing emails**

**Sanjeev**

* **Curated social engineering examples**
* **Drafted quiz questions**
* **Analyzed false positives**

**Week 6: Training Module**

**Apurba**

* **Set up quiz database schema**
* **Added user progress tracking**
* **Implemented scoring system**

**Hemant**

* **Built interactive quiz UI**
* **Added scenario-based questions**
* **Designed feedback popups**

**Aman**

* **Developed chat simulation feature**
* **Integrated scoring logic**
* **Tested training flows**

**Sanjeev**

* **Wrote 10 phishing scenarios**
* **Created educational feedback**
* **Researched gamification**

**Week 7: User Features**

**Apurba**

* **Enhanced JWT authentication**
* **Added profile management**
* **Implemented password reset**

**Hemant**

* **Developed user settings page**
* **Added notification preferences**
* **Optimized UI performance**

**Aman**

* **Created API rate limiting**
* **Implemented scan scheduling**
* **Fixed cross-browser issues**

**Sanjeev**

* **Drafted user manual**
* **Prepared consent forms**
* **Updated ethics section**

**Week 8: Testing**

**Apurba**

* **Conducted end-to-end testing**
* **Fixed backend bugs**
* **Optimized database queries**

**Hemant**

* **Tested UI on mobile/desktop**
* **Fixed accessibility issues**
* **Collected user feedback**

**Aman**

* **Validated scanner accuracy**
* **Reduced false positives**
* **Stress-tested APIs**

**Sanjeev**

* **Proofread report draft**
* **Verified references**
* **Prepared demo script**

**Week 9: Deployment**

**Apurba**

* **Deployed backend to Heroku**
* **Configured environment variables**
* **Wrote deployment docs**

**Hemant**

* **Deployed frontend to Vercel**
* **Recorded application demo**
* **Finalized UI polish**

**Aman**

* **Containerized services**
* **Monitored live performance**
* **Documented troubleshooting**

**Sanjeev**

* **Compiled final report**
* **Formatted references**
* **Prepared presentation**