SOFTWARE DEVELOPMENT PROPOSAL

PREPARED FOR

Sesame Group

PREPARED BY

Sith Cloud

CSD04-G2

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Where Intelligence Meets Identity

PROJECT NAME	nonameapp - AI-Enhanced Profile Hosting Platform		
EST. START DATE	May 15, 2025	EST. FINISH DATE	August 13, 2025
SUBMITTED TO	Miguel Mateo	COMPANY	Sesame Group
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SUBMITTED BY	CSD04-G2	COMPANY	Sith Cloud
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PROJECT OVERVIEW

To build a subscription-based web platform named nonameapp, where professionals can host personal AI-enhanced profile cards including a photo, summary, and AI assistant trained on their uploaded documents. Visitors can browse these profiles and interact with the assistants. This aims to improve discoverability and automate client engagement.

PURPOSE / GOALS

To improve personal online presence and personal branding through:
- AI-augmented public profiles
- Interactive Q&A assistant trained on user content
- Customization options for users (future feature)

To improve the general public and organization's exposure to a reliable search engine to engage the services of specific individuals when needed. This will be the Directory's main purpose.

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OBSTACLES (IF ANY)

- Stripe access is via Sesame Group; integration must follow external constraints.

- AI training tools and AI Assistant deployment are hosted externally (on AWS).

- Web app team does not directly manage user-uploaded files.

INDUSTRY / MARKET RISK FACTORS

- Data privacy and GDPR compliance for user files and AI responses.

- Reliance on external AI infrastructure and payment providers.

- Technical complexity of integrating cross-cloud services (Azure + AWS).

BUDGETARY ASSUMPTIONS

- Azure Free Tier used where possible.

- Azure App Services, ACR, and Blob Storage kept minimal (Basic SKU).

- No cost for AI services (offloaded to Sesame Group).

- Manual support during MVP phase.

HARDWARE COMPATIBILITY

- Desktop and mobile browser support (responsive layout).

- No hardware dependencies required.

SOFTWARE EMPLOYED

- **Backend:** Python Flask

- **Frontend:** HTML, CSS, JavaScript, Jinja2, Bootstrap, Font Awesome

- **Database:** SQLite (initial), Azure SQL (since June 5, 2025)

- **Hosting:** Azure App Service (Linux Container)

- **DevOps:** GitHub Actions paired with Azure App Service, Docker, GitHub Private Repository (Source control), GitHub Projects (Planning, general project workflow, tasks assignments), VSCode

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- **Infrastructure as Code:** Terraform

- **External APIs:** Stripe (Sesame Group), AI Assistant Admin UI (Sesame Group), Profile Card AI Assistant (Sesame Group), Currency Exchange Rates (ExchangeRates)

TIMELINE / MILESTONES (PREDICTIVE)		
OVERVIEW	The project is already underway as agreed after the presentation of the Feasibility Report. For transparency and clarity, we include all dates since the start of the project.	
MILESTONE	**REPORTING**	**DEADLINE**
Project Planning + DevOps Setup	Weekly	May 22, 2025
MVP Feature Dev (Auth, Dashboard)	Weekly	June 5, 2025
AI Integration & Stripe Setup	Weekly	June 10, 2025
MVP Demo Live	Final	June 19, 2025
Stretch Features (Phase 1)	Final	July 20, 2025
Stretch Features (Phase 2)	Final	August 13, 2025

AZURE ARCHITECTURE & MONITORING TOOLS + CI/CD PIPELINE + USER HTTPS ONLY CONNECTION
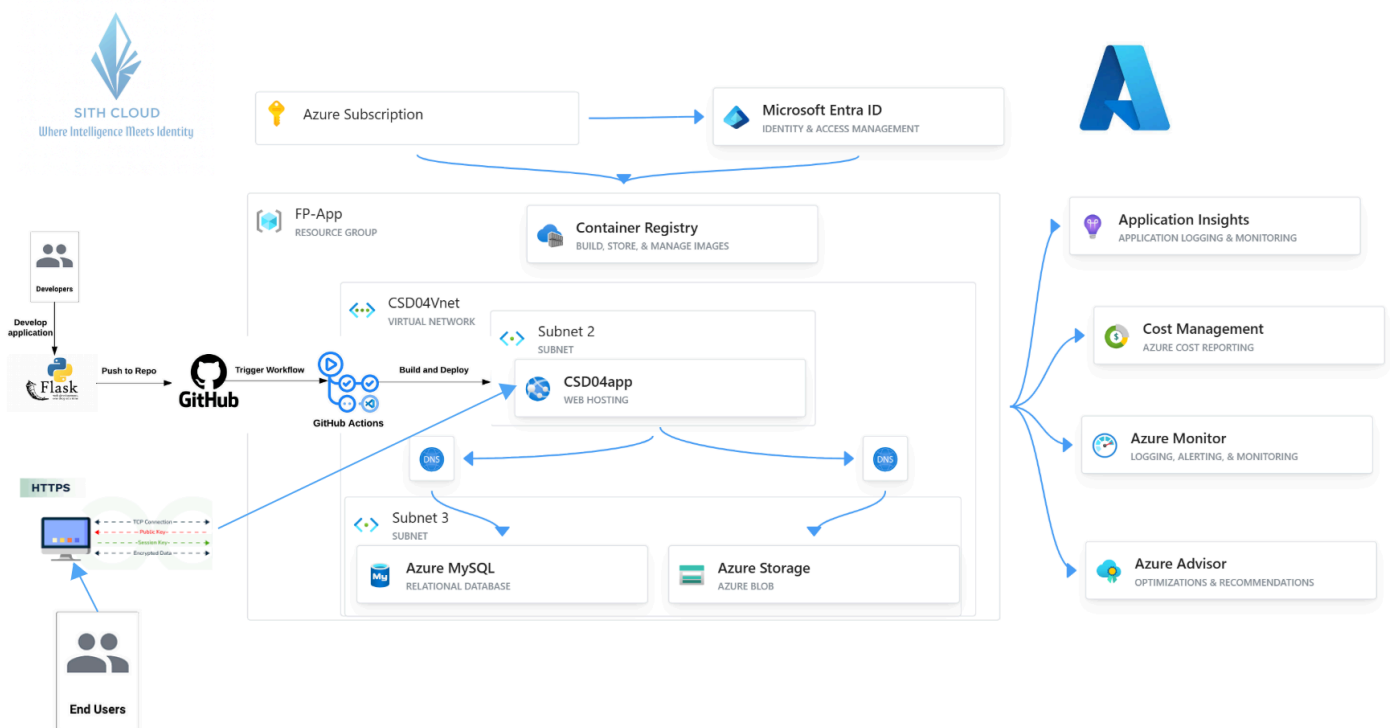
DEPLOYMENT / DISTRIBUTION

- Continuous deployment via GitHub Actions to Azure App Service.

- Dockerized Flask app with Azure Container Registry. Future plans to rebuild the application as a web app composed of microservices.

TESTING

- Manual feature testing during development.

- Security scan using Trivy (CI/CD).

- End-to-end tests before MVP deployment.

DOCUMENTATION

- Markdown documentation in GitHub repo.

- Project README with setup, usage, and deployment steps.

SUPPORT

- Community and developer email support during MVP.

- Future support options TBD post-deployment.

TRAINING

- In-app tooltips and AI assistant guidance.

- Walkthrough video and documentation for users.

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COST STRUCTURE (PRELIMINARY)	
OVERVIEW	All OpEx prices are estimates based on the currency exchange rate at the time this document is created. Final total cost might be different depending on market movements.

NEEDS / INVESTMENT (CapEx)	COST (SGD)
Project Manager (salary SGD $5,500/mo, 10 weeks, ~ SGD $~1,375/week)	SGD $13,750
Frontend Developer (salary SGD $4,800/mo, 10 weeks, ~ SGD $1,200/week)	SGD $12,000
Backend Developer (salary SGD $5,200/mo, 10 weeks, ~ SGD $1,300)	SGD $ 13,000
DevOps Engineer (salary SGD $5,500/mo, 10 weeks, ~ SGD $1375)	SGD $13,750
CapEx ESTIMATE TOTAL	**~ SGD $52,500**

NEEDS / INVESTMENT (OpEx)	COST (SGD)
Azure App Service (Basic, 1 instance, USD $55/mo)	~ SGD $74/mo
Azure Container Registry (Basic, 10 GB, USD $0.167/day ≈ $5/mo)	~ SGD $7/mo
Azure Storage (Hot, 100GB, USD $0,023/GB)	~ SGD $3/mo
VNet with Subnets (Default +2)	free
Azure Database for MySQL Flexible Server (B1ms, 1 vCore, 2 GB RAM, USD $12.41/mo)	~ SGD $16.75/mo
2 x Private DNS Zone (database & Storage, ~ USD 0.50 each)	~ SGD $1.30/mo
2 x Private Endpoint + Private NIC(USD $0.01/hr each, USD $144/mo)	~ SGD $194/mo
OpEx ESTIMATE TOTAL	**~ SGD $296.05**

PAYMENT TERMS

CapEx:
- 20% (SGD $10,500) of the total project budget is payable upon commencement.
- 40% (SGD $21,000) shall be invoiced upon MVP delivery on or before June 19.
- 40% (SGD $21,000), the remaining amount shall be invoiced upon final project handover and acceptance by August 13.
- Payment is due within 15 calendar days of invoice issuance.

OpEx: Monthly or annual payment, Sith Cloud pays during the development phase.

TERMS & CONDITIONS

1. **Scope of Work**
   This project proposal covers the development and deployment of a cloud-based AI-powered profile card web application, as described in the "Project Overview." Any changes to scope or features must be agreed upon in writing.

2. **Intellectual Property**
   All source code and documentation produced by the development team shall remain the intellectual property of the client unless otherwise agreed.

3. **Third-Party Dependencies**
   The application integrates third-party services (e.g., Stripe, AI Assistant via Sesame Group, Microsoft Azure). The development team is not responsible for service interruptions or limitations caused by these providers.

4. **Confidentiality**
   All sensitive user and project data will be handled with care and stored securely. No personal or client information will be shared without explicit consent.

5. **Support and Maintenance**
   Post-deployment maintenance and support are not included unless otherwise specified in a service agreement. Issues discovered during the testing phase will be resolved prior to delivery.

6. **Acceptance**
   This proposal is valid for 30 days. Acceptance of this document implies agreement to the terms herein.

PROPOSAL MAY BE WITHDRAWN IF NOT ACCEPTED BY DATE OF	July 12, 2025

ACCEPTANCE OF PROPOSAL

AUTHORIZED CLIENT SIGNATURE		DATE OF ACCEPTANCE	

Corroborate that the document you are signing has a total of 7 pages (6 content pages and a cover page). Thank you.

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