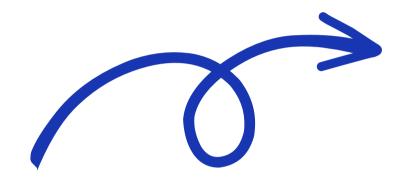
(a) Ayoto

Problems



Problem 1

Unavailability of Preliminary Diagnosis Service



Anxiety

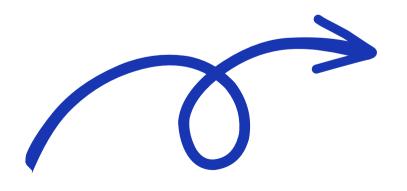
Delayed treatment

Inaccurate self-diagnosis



Problem 2

Difficulty Finding
Suitable Doctors

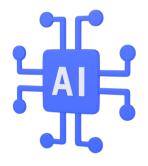


Suboptimal treatment outcomes

Frustrating healthcare experience

Solutions

Solution 1



AI-Driven Preliminary Diagnosis

Our AI-driven solution provides users with a preliminary diagnosis service, utilizing advanced algorithms and medical knowledge. This empowers individuals to seek appropriate medical attention.



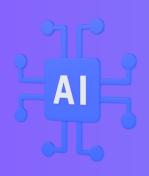
Solution 2

Personalized Doctor Recommendations

Utilizing an extensive dataset of specialized doctors, users can connect with doctors with expertise and experience to address their unique needs, enhancing their experience and access to specialized doctors.

Product

Our health startup offers a comprehensive range of innovative products and services that address the key challenges faced by individuals seeking preliminary medical diagnosis and accessing suitable doctors.







Preliminary Diagnosis Service

Doctor Discovery and Booking

Health Records Management

Technology Stack



HIBERNATE











Mobile Stack



Microservice Communication



*gRPC

Website Demo

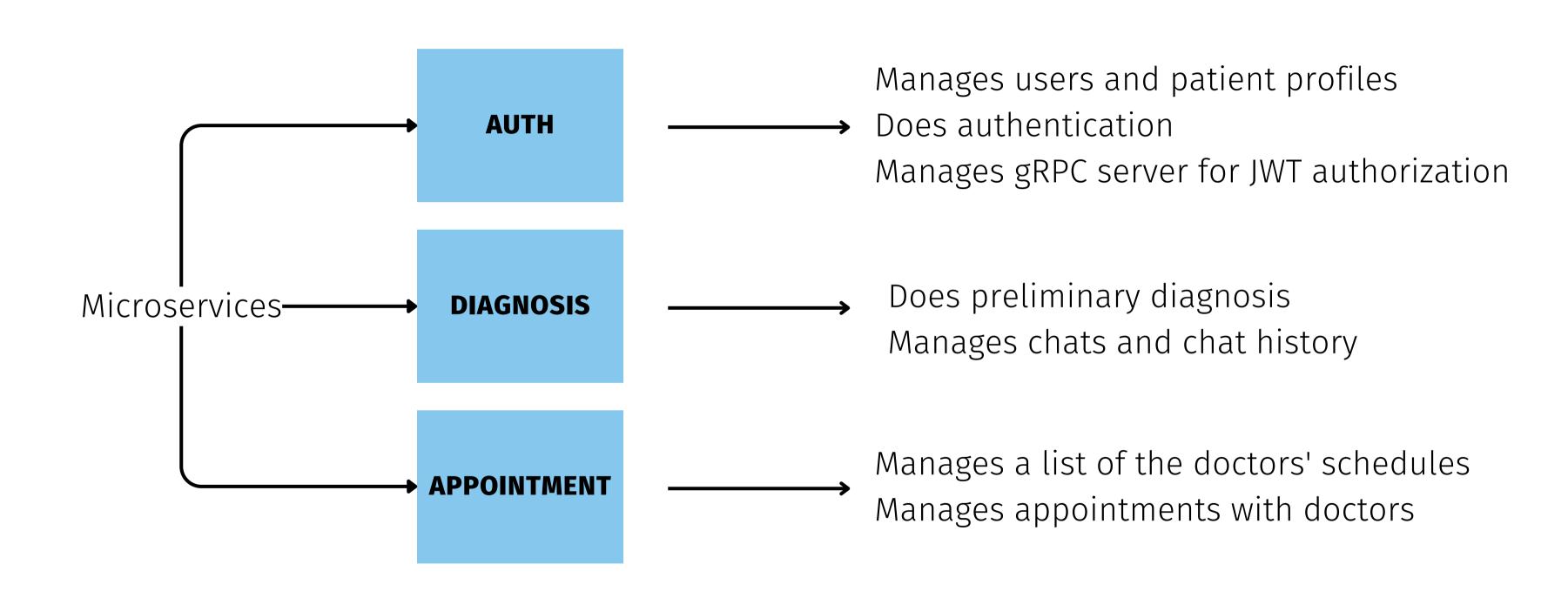
Website Demo

Mobile Application Demo

Mobile App Demo

BackEnd

Architecture



Utilities

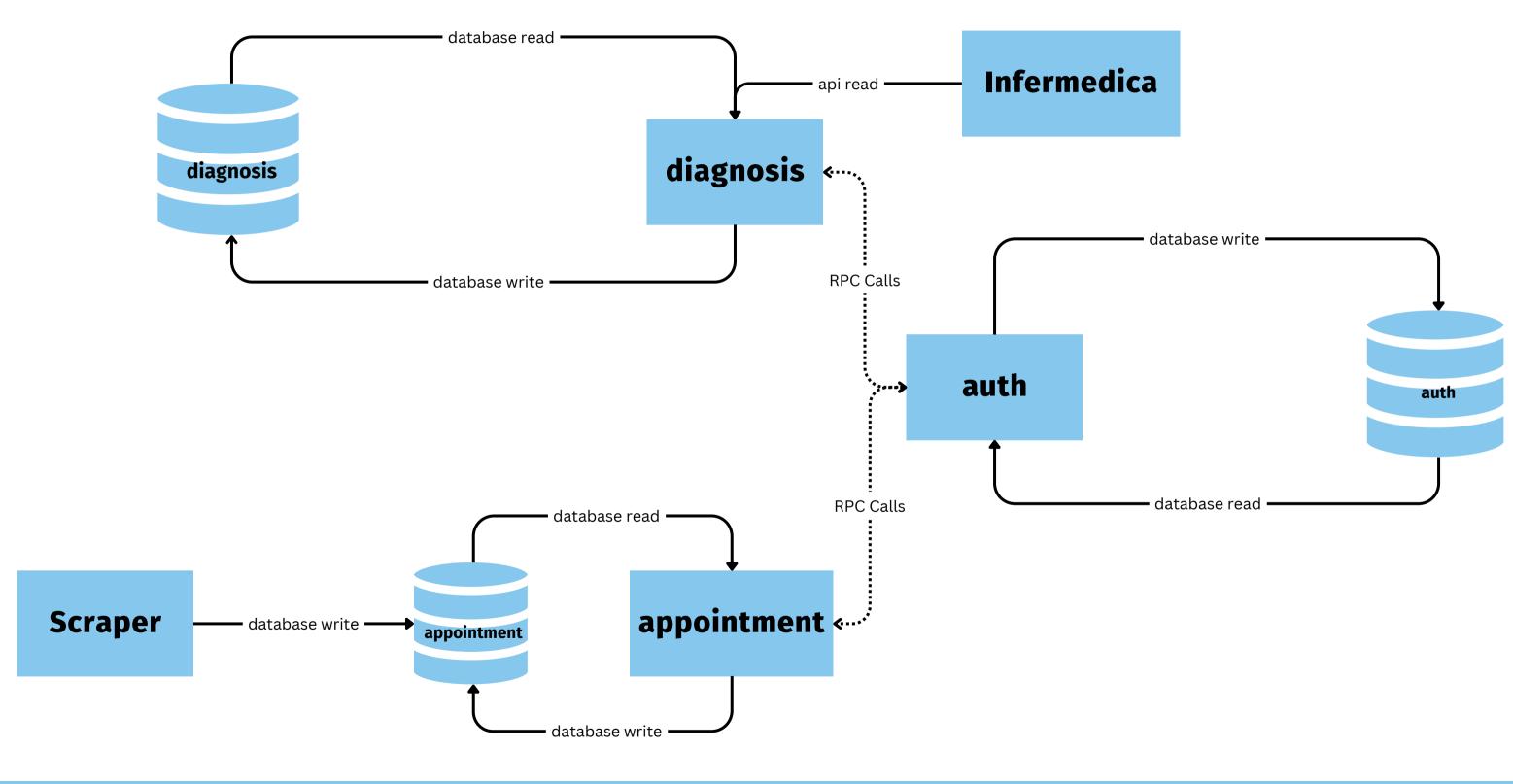
Scraper

Collects data about 1400 doctors in Bangladesh Data includes: names, specializations, schedules, etc.

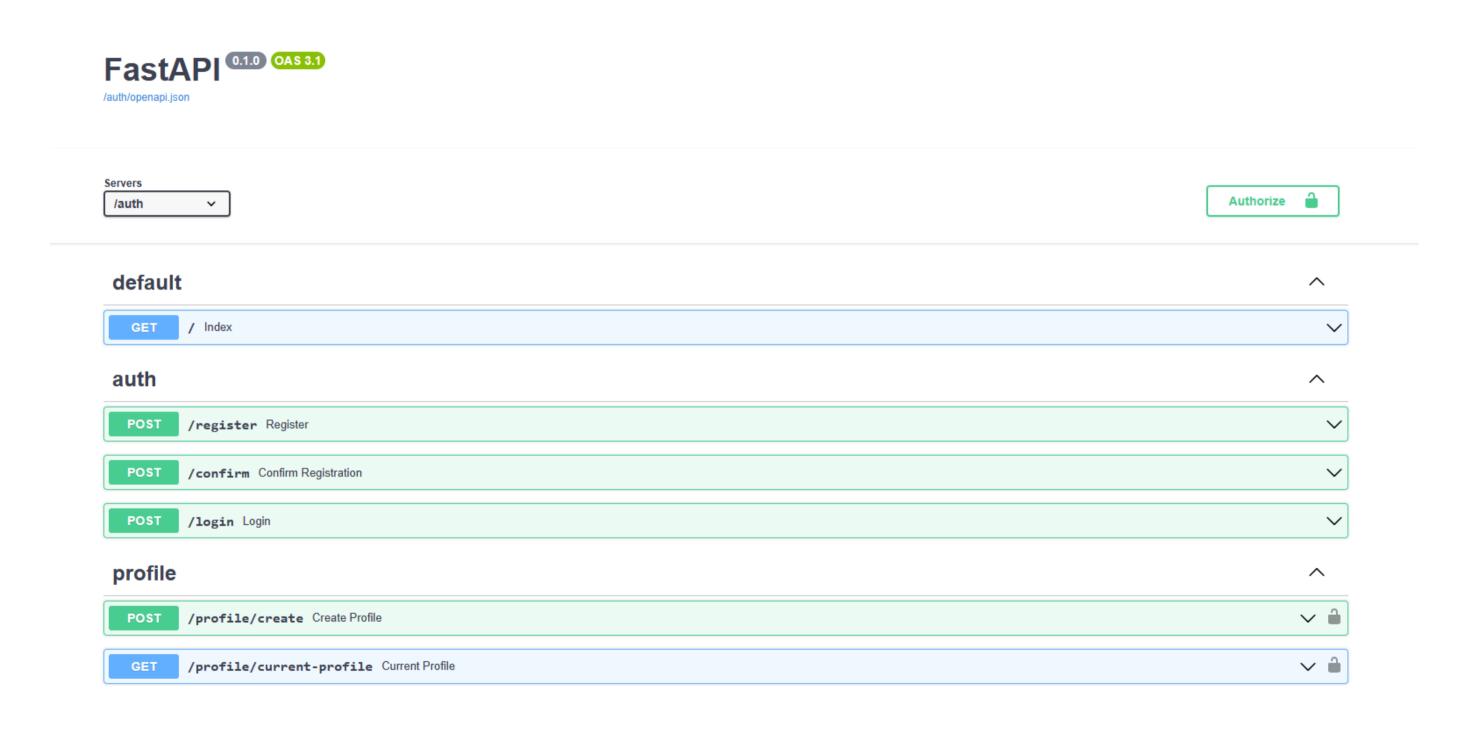
Python Infermedica Library

Provides abstraction for API calls to Infermedica endpoints Manage states for the stateless Infermedica api

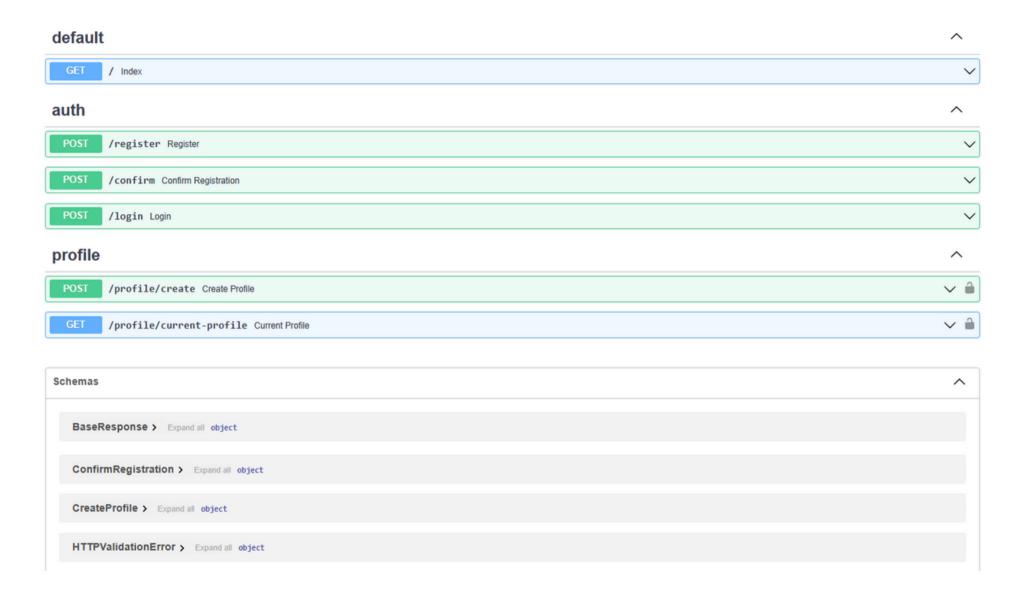
Component Diagram

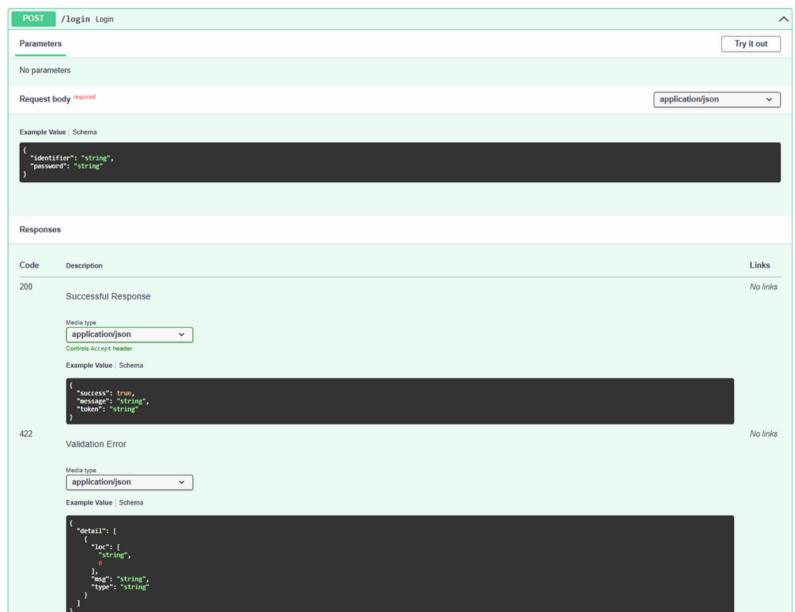


Swagger Documentation

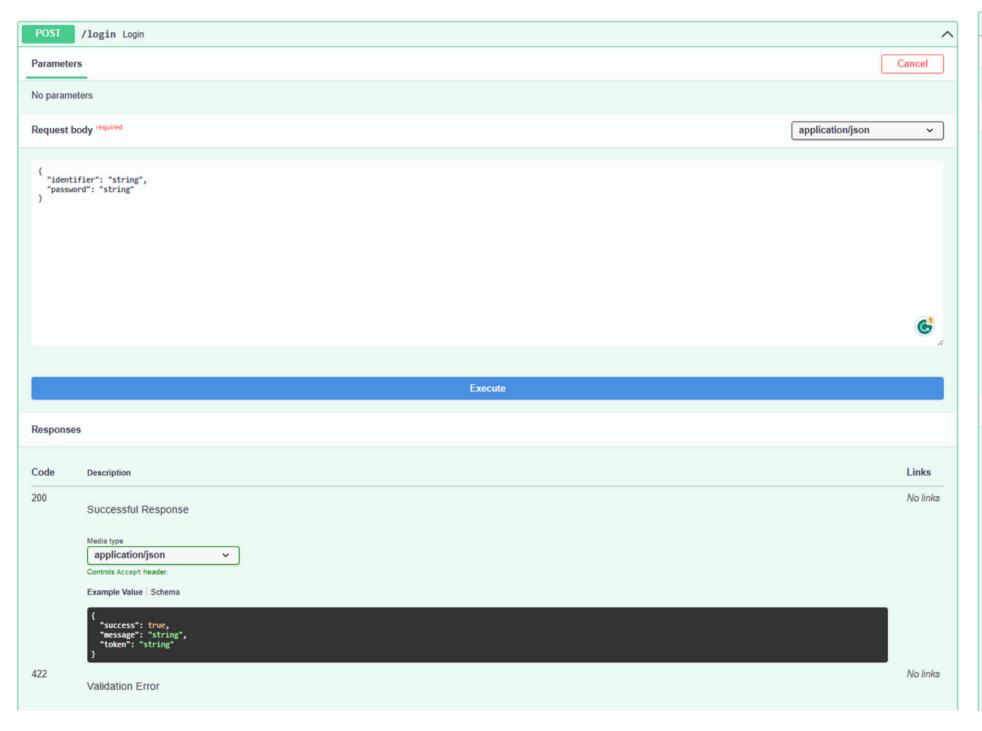


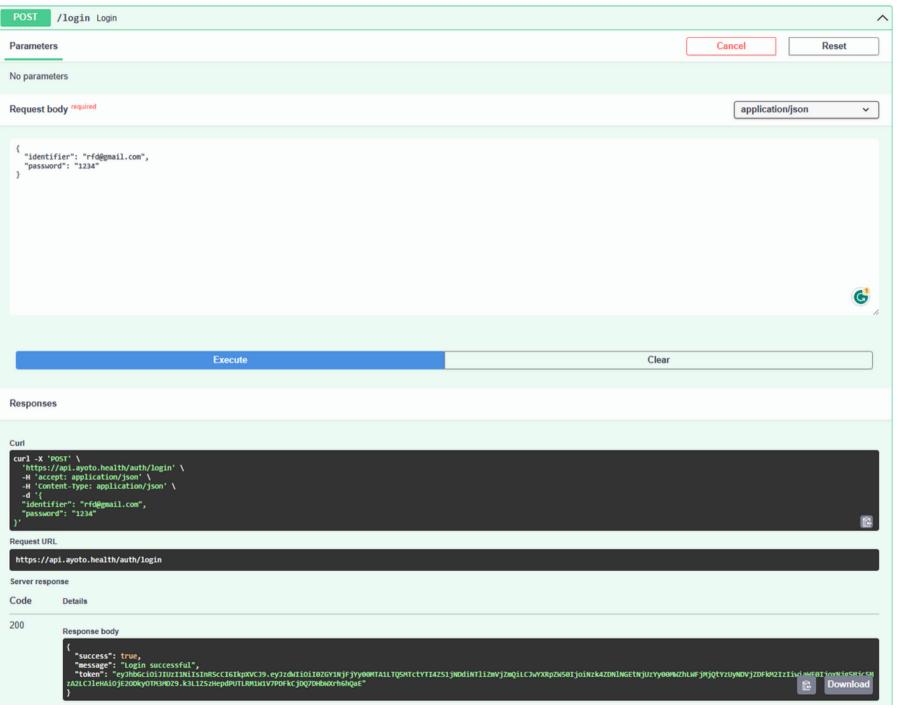
API Specification



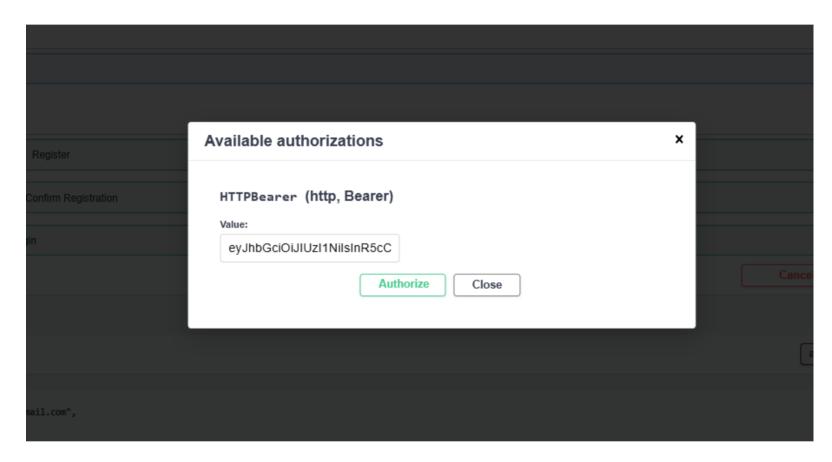


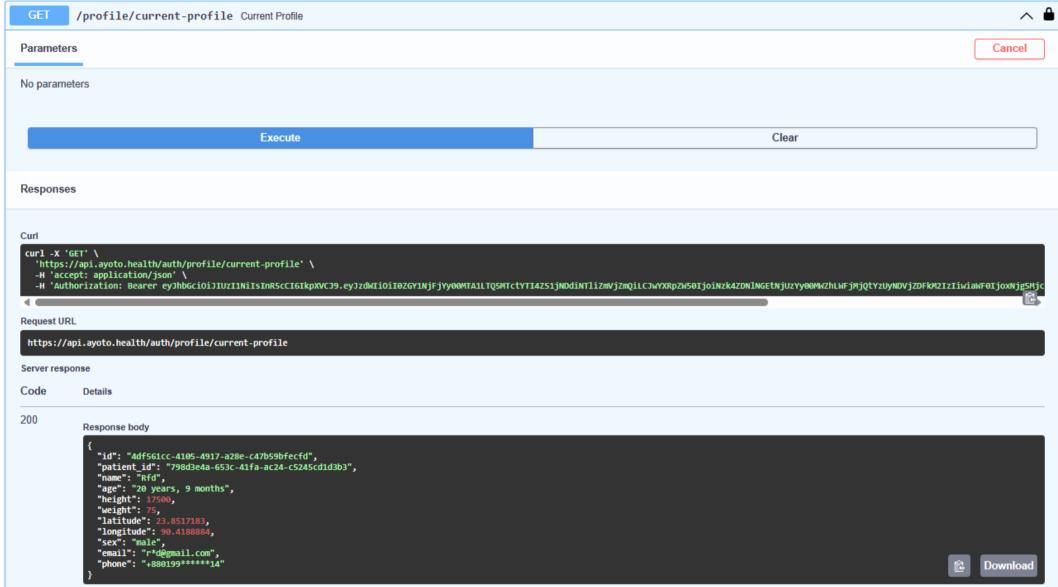
Interactivity





Authorization





Security and Privacy

Security

Secrets management on the deployment stage only (using Vault)

JWT tokens for authentication

SSL enabled for all subdomains

GRPC calls only within the cluster network

Protection against common cyber attacks (DDoS, path traversal, etc.)

Privacy

Compliant to GDPR and HIPAA

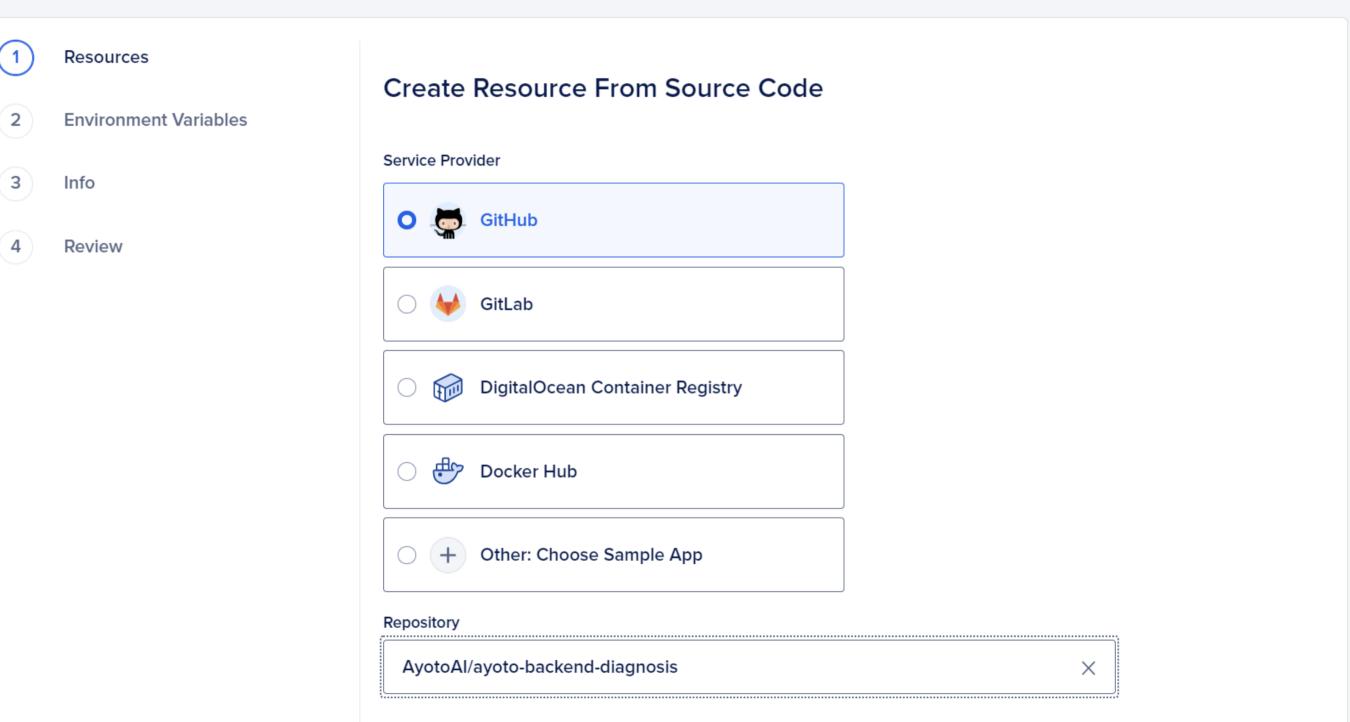
User data is pseudonymized Automatic removal of chat history after 7 days Short authorization token expiry time Accurate personal data (excl. name) is never shown on the screen

Devops

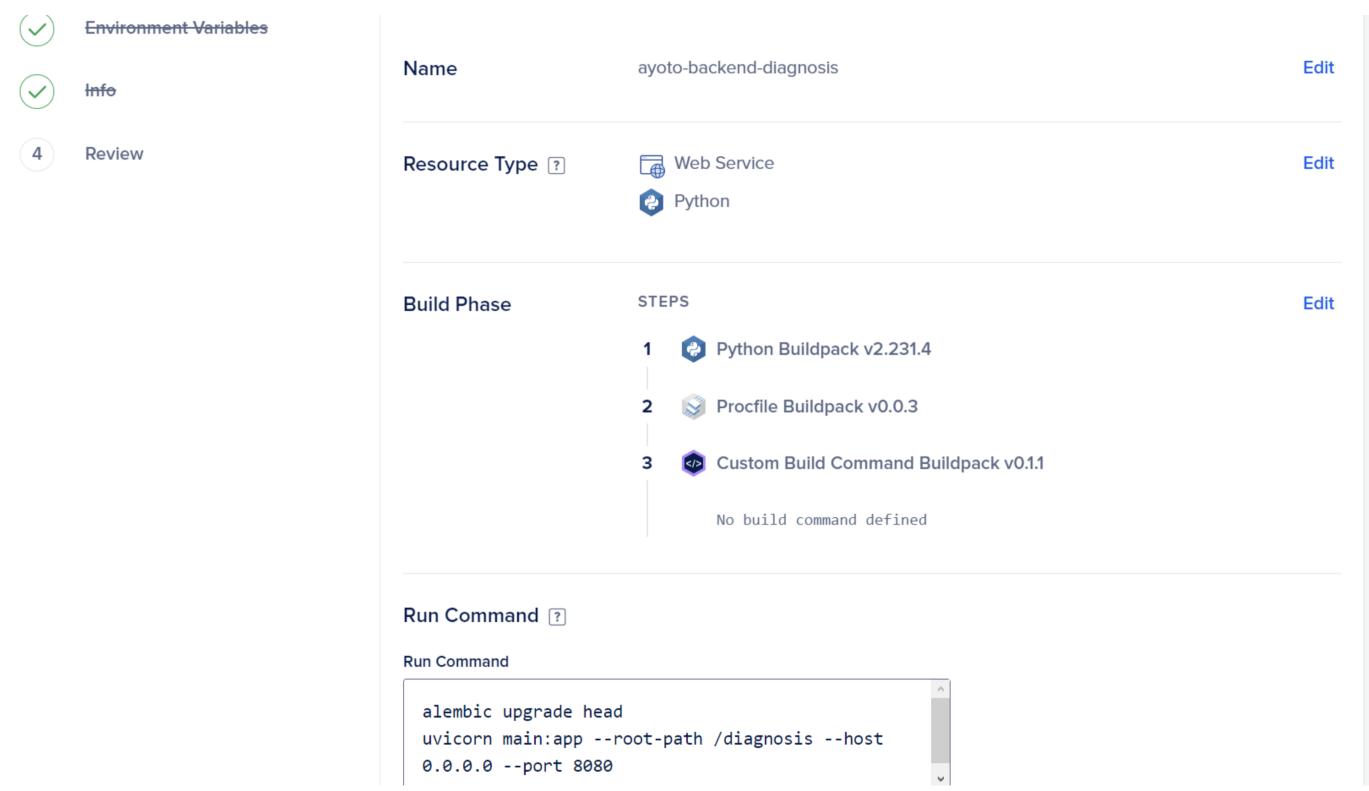
DigitalOcean Apps

DigitalOcean Apps

Create App Resources Create Resource From Source Code

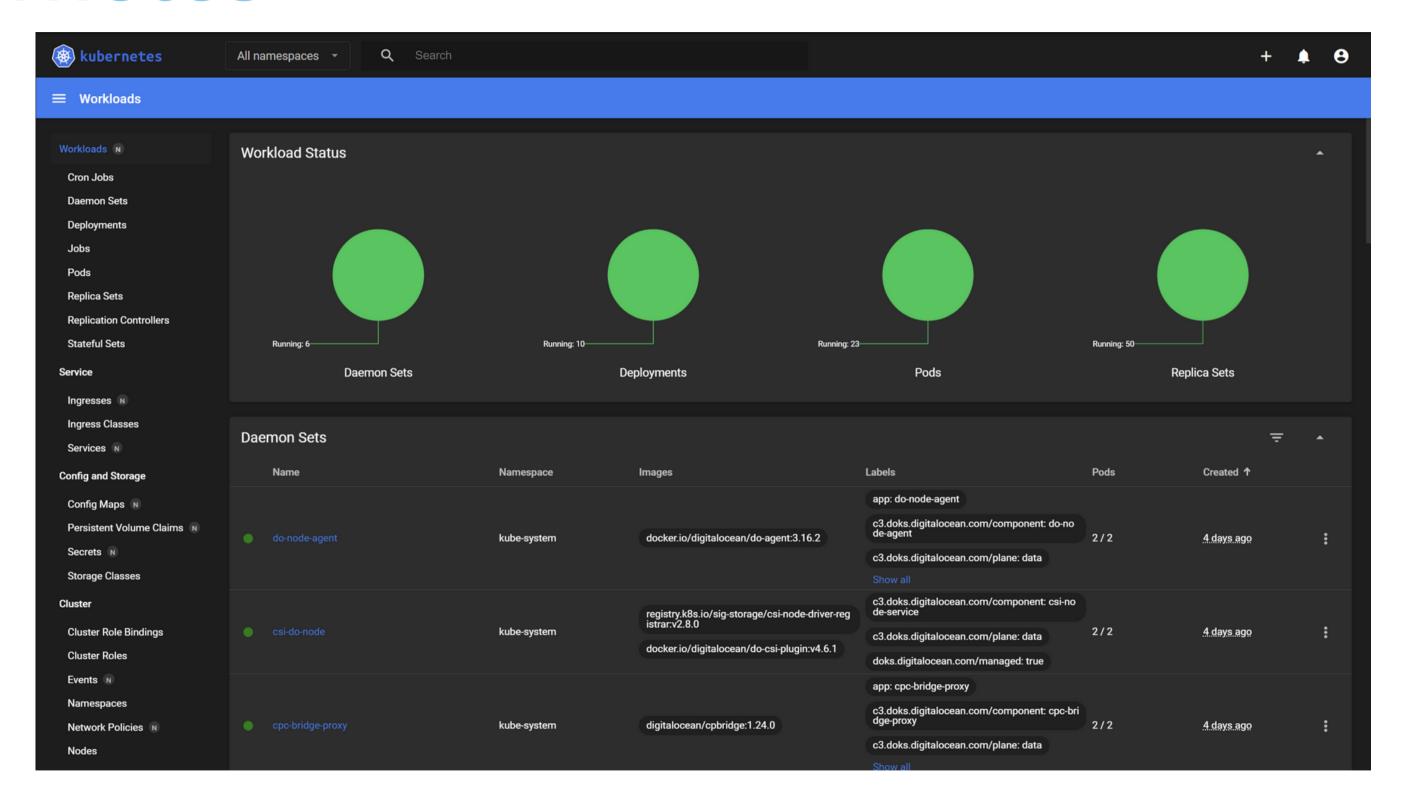


DigitalOcean Apps



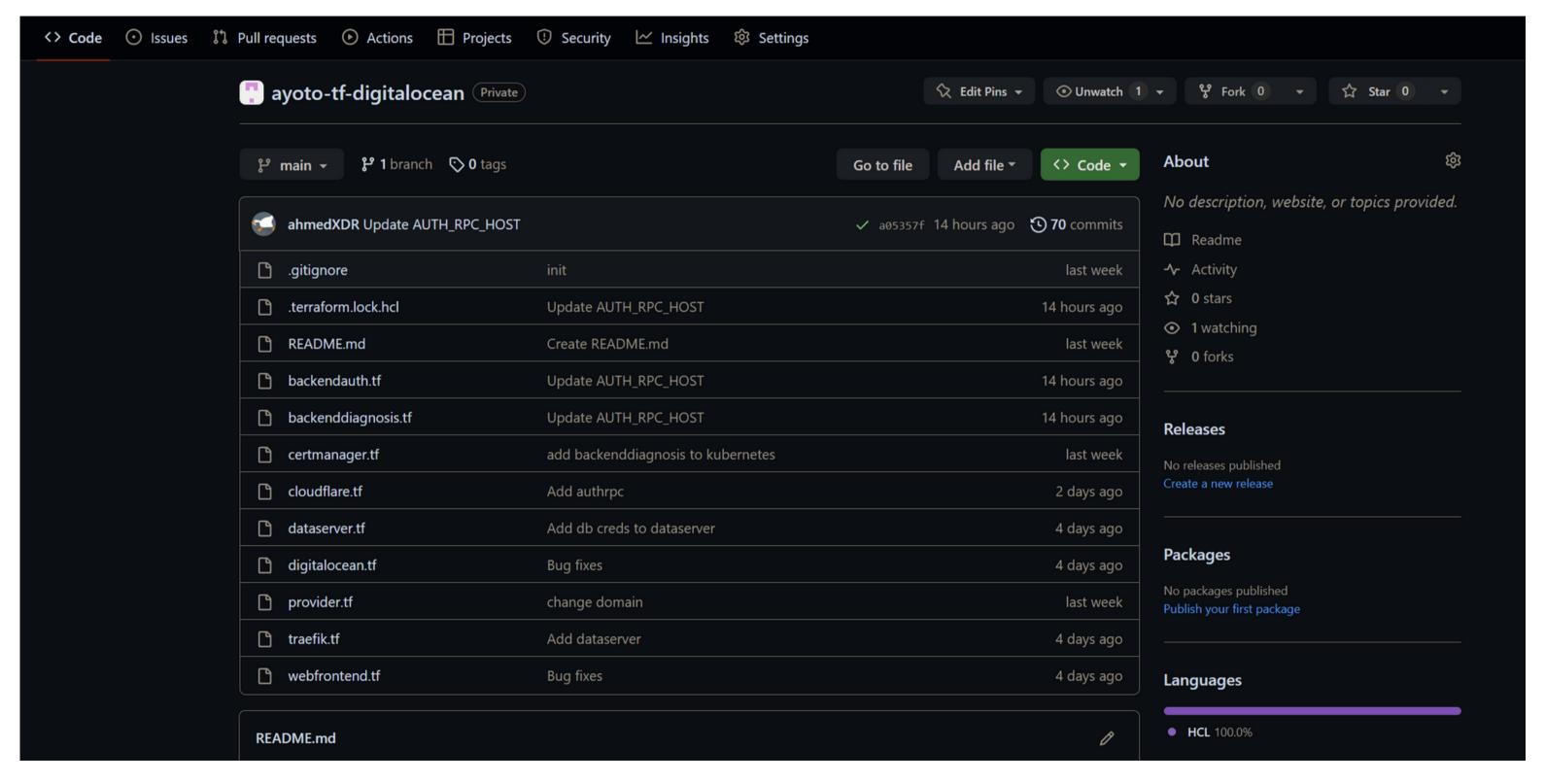
Kubernetes

Kubernetes

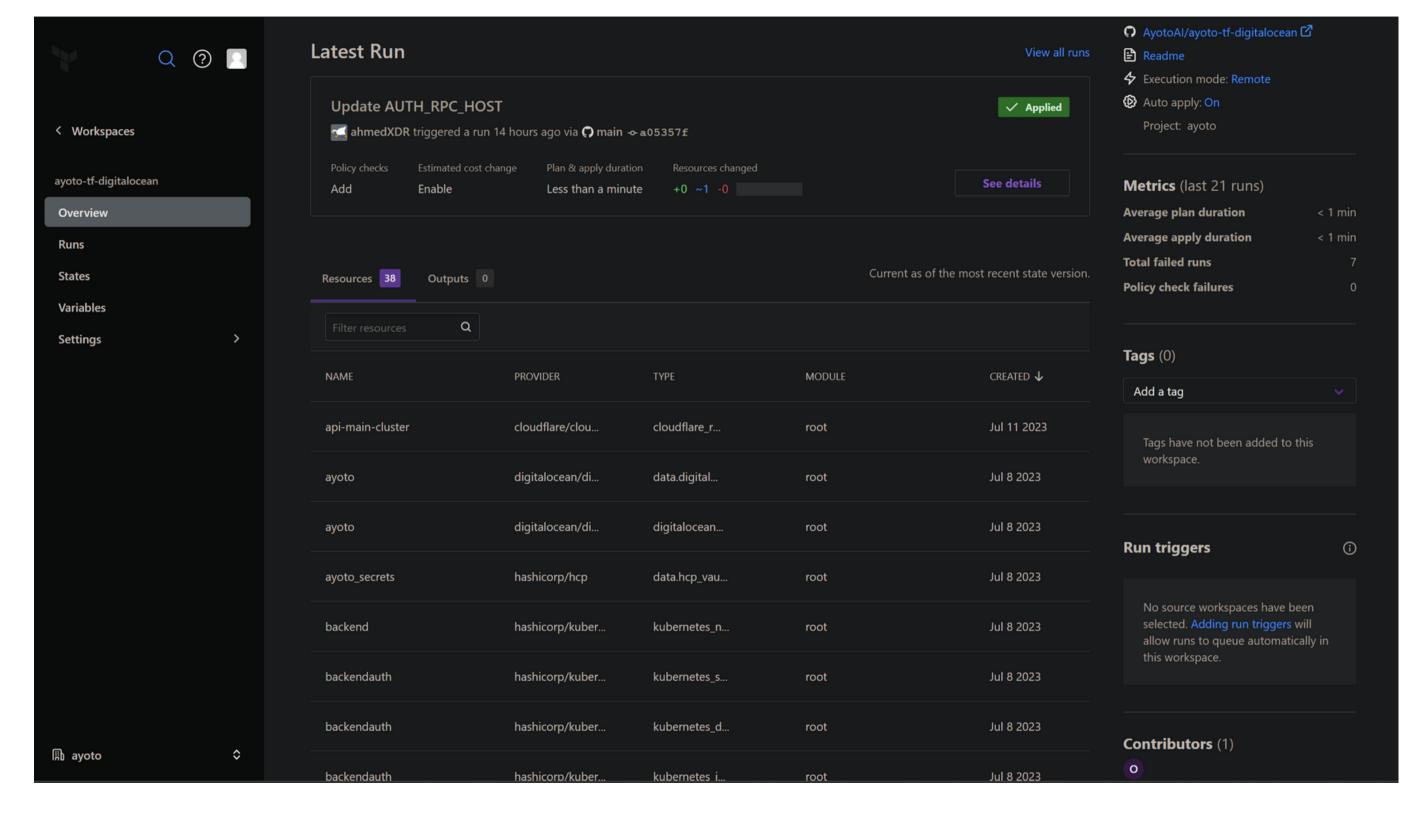


Terraform

Terraform

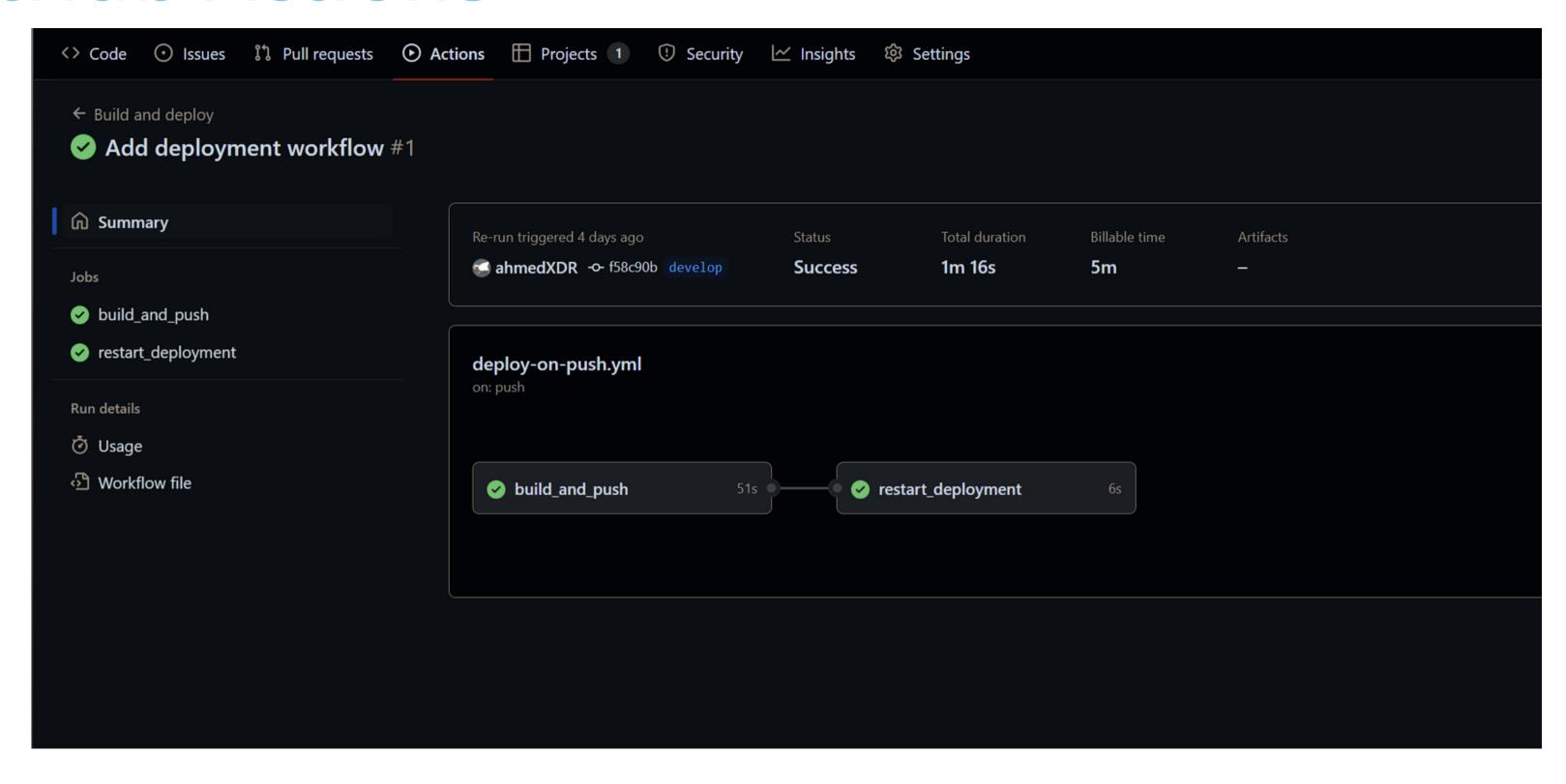


Terraform



GitHub Actions

GitHub Actions



Business Plan

Business Model

Customer Segments

Individual Users

We target individuals who require preliminary medical diagnosis and assistance in finding suitable doctors.

Corporate Clients

We also target corporate clients, including hospitals and individual doctors, who seek to provide value-added healthcare services to their customers.

Revenue Streams

Doctor Booking Fees

Percentage from the doctor and diagnosis appointment fees

Advertising and Sponsorships

We offer advertising opportunities to relevant stakeholders who want to reach our user base

Premium Accounts

Enhanced features and benefits
Subscription-based model, generating recurring revenue

Key Partnerships

Health Insurance Companies

Partnerships with health insurance providers to offer our services as part of their offerings, providing added value to their policyholders

Market Size

169.4 M

Total Available Market (TAM)

90 M

Serviceable Available Market (SAM)

35M

Serviceable Obtainable Market (SOM)

Direct Competitors

- Praava
- DoctorKoi
- Pulse
- Hia
- Lifeplus
- Doctime

Indirect Competitors

- Traditional Brick-and-Mortar Clinics
- General Health Information Websites

Competitive Advantages

Advantage 1

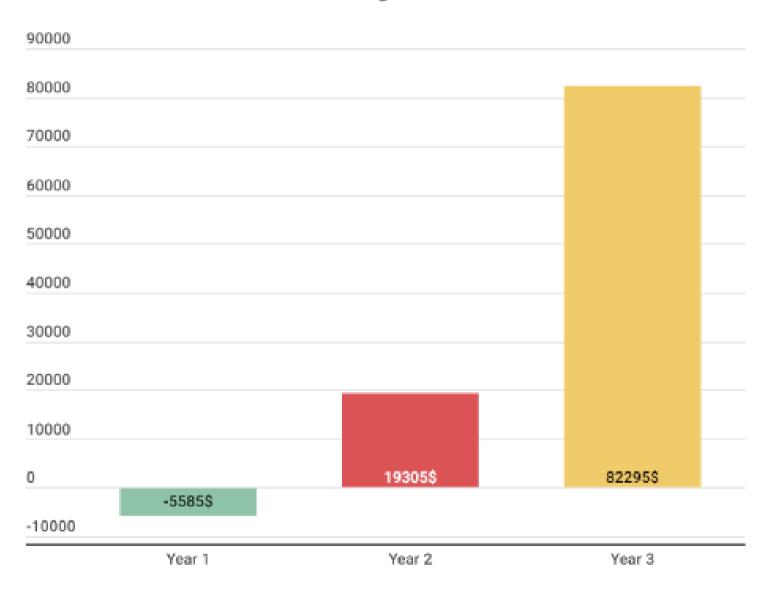
Al-driven diagnosis: The game changer. Unprecedented in the country.

Advantage 2

Personalized doctor recommendations instead of generic doctor name lists.

Break-Even Analysis

Break-even Analysis



The following table shows the projected profit and loss for the first 3 years:

ltem	Year 1	Year 2	Year 3
Hosting and APIs	4,055\$	2,530\$	2,530\$
Marketing	1,680\$	1,680\$	1,680\$
Developing our own models	3,050\$	0\$	0
Total Expenses	8,785\$	4,210\$	45,010\$
Total Revenue	3,200\$	29,100\$	108,000\$
Profit	-5,585\$	19,305\$	82,295\$

Expected Costs & Revenue of First 3 years

	Year '	1					
ltem	No. of Items	AVG. Price	Total				
Commission Per Visit	10000	0.3\$	3,000\$				
Premium Accounts	100 2\$		200\$				
	3,200\$						
Year 2							
ltem	No. of Items	AVG. Price	Total				
Commission Per Visit	75000	0.3\$	22,500\$				
Advertisement	36	100\$	3,600\$				
Premium Accounts	750	4\$	3,000\$				
	29,100\$						
	Year :	3					
ltem	No. of Items	AVG. Price	Total				
Commission Per Visit	300000	0.3\$	90,000\$				
Advertisement	60	100\$	6,000\$				
Premium Accounts	3000	4\$	12,000\$				
	108,000\$						

ltem	Unit	No. of Units	No. of Items	Unit Price	Total			
Team Salaries								
CEO	Month	12	1	500\$	6,000\$			
COO	Month	12	1	400\$	4,800\$			
Fronend web developer	Month	12	1	500\$	6,000\$			
Backend Developer	Month	12	2	500\$	12,000\$			
DevOps Engineer	Month	12	1	100\$	1,200\$			
Mobile Developer	Month	12	2	450\$	10,800\$			
	Salari	ies Total			40,800\$			
Others								
Domain	Year	3	2	15\$	90\$			
Web hosting & APIs	Month	36	1	200\$	7,200\$			
PlayStore Account	Account	1	1	25\$	25\$			
AppStore Account	Year	3	1	100\$	300\$			
Infermedica API	API Call	3000	1	1\$	1,500\$			
Paid Ads	Month	36	1	10\$	360\$			
Graphics Freelancer	Month	36	1	30\$	1,080\$			
Influencers Payment	Person	18	2	100\$	3,600\$			
ML Engineer Payment	Model	2	1	450\$	900\$			
High Performance GPUs	Month	3	1	50\$	150\$			
Data Annotators	Month	4	5	100\$	2,000\$			
Others Total								

Our Team



Mostafa KiraBusiness Manager



Md Motasim Bhuiyan
PR Manager, Backend Developer



Zeyad AlagamyFrontend Developer



Fedor Krasilnikov Backend Developer



Ahmed Soliman DevOps Engineer



Mohamed NguiraMobile Developer



Mobile Developer

Acknowledgement



Abrar Auhin

Helped us to collect data
about the market in
Bangladesh



Helped us to make a beautiful design for our platform



Helped us designing our database schema based on pseudonymization



Abdullah Al Noman

Helped us go through
HIPAA and GDPR policies



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