Risk Identification

Risk ID	Risk Description	Category	Likelihood	Impact	Mitigation Plan	Owner	Status
1	Dependency on GEMINI API for treatment data may fail or become unavailable.	External Dependency	High	High	Implement fallback mechanisms with cached treatments.	DevOps	Open
2	Delays in image processing due to high network latency or server issues.	Performance	Medium	High	Optimize server performance and implement retry logic.	DevOps	Open
3	Inadequate training data may result in poor disease detection accuracy.	AI/Model Accuracy	High	High	Enhance dataset diversity and conduct regular retraining.	AI Dev	Open
4	Security breaches affecting user data or application integrity.	Security	Medium	High	Implement advanced encryption and secure access protocols.	Security Lead	Open
5	Server downtime impacting application availability.	Availability	Medium	High	Use redundant servers and schedule planned maintenance during off-peak hours.	DevOps	Open
6	Unclear user interface leading to poor user adoption.	Usability	Low	Medium	Conduct user testing and iterative UI improvements.	PM	Open
7	Third-party library updates causing integration issues.	Integration	Medium	High	Monitor updates and test changes before deployment.	DevOps	Open
8	Hardware incompatibility with minimum application requirements.	Hardware	Low	Medium	Set clear minimum hardware requirements and provide guidance.	PM	Open
9	Errors in data visualization on the map feature.	Visualization	Medium	Medium	Improve map testing coverage with user feedback.	QA	Open
10	System failure during peak concurrent user activity.	Scalability	High	High	Optimize backend architecture for scalability.	DevOps	Open
11	Misalignment of goals among team members or stakeholders	Project Management	Medium	High	Conduct alignment meetings and document decisions clearly	PM	Open
12	Overestimation or underestimation of task durations	Timeline	High	Medium	Add buffer time in schedules and review progress regularly	PM	Open
13	Non-compliance with legal or data security requirements	Compliance	Medium	High	Conduct compliance audits and integrate privacy-by-design	Security Lead	Open
14	Degradation of performance during scalability testing	Scalability	Medium	High	Conduct load testing with increasing user volumes	QA	Open
15	Delay in external data sources (e.g., GEMINI API)	External Dependency	High	High	Introduce mock services for dependency-independent development	DevOps	Open