RISK REGISTER

Risk Category	Risk Description	Risk level	Mitigation Strategy
Legal & Regulatory	Deployment of vending machines violates current Latvian law and Cabinet Regulation No. 416	**High**	Treat the project as a simulation only; reference legal framework; include regulatory change proposal.
	Advertising and usage guidance may conflict with medicine marketing restrictions	**Medium**	Use generic symptom-based guidance and safety warnings; remove product-level promotional wording.
Ethical & Safety	Lack of pharmacist oversight may lead to misuse, incorrect dosing, or unsafe self-medication	**High**	Use purchase limits, symptom screening, red-flag logic (e.g., age, pregnancy), and mandatory disclaimers.
	Use of facial recognition raises ethical concerns and user discomfort	**Medium**	Apply GDPR-compliant consent, anonymisation, and automatic deletion after 24 hours.
Data & Privacy	Personal or biometric data mishandling risks GDPR non-compliance	**High**	Store minimum data, encrypt records, restrict access, enable audit logs, enforce retention limits.
Technical	Predictive models may perform poorly due to limited or incomplete public datasets	**Medium**	Use synthetic data aligned with official statistics, cross-validate models, iterate using DDS cycles.
	AI chatbot may give inaccurate or misleading guidance	**High**	Apply medical rule-based constraints, symptom red-flag triggers, and expert validation.
	System instability or component failure (app, AI model, dashboard integration)	**Medium**	Use version control, modular architecture, backups, and staged testing.
Operational & Project Delivery	Overlapping tasks or unclear ownership may delay progress	**Medium**	Use weekly DDA (Data-Driven Agile) review meetings, clear role ownership, and shared backlog.
	Time constraints as deadline approaches	**High**	Prioritise core functionality (placement + forecasting + chatbot MVP) before advanced features.
	Bias in machine placement model could disadvantage rural communities	**Medium**	Test fairness metrics, compare alternative placement strategies, ensure equitable coverage logic.