Risk Management Table

Risk Summary	Risk Category	Probability	Impact (1–4)	RMMM (Mitigation Strategy)
Delays in API response or server timeout	Technical	High (0.8)	2 (Critical)	Implement request retries, caching, and fallback mechanisms to reduce downtime.
Incomplete or incorrect user data during signup	Functional	Medium (0.5)	3 (Marginal)	Add front-end validations and backend schema checks with proper error messages.
Team member unavailable during key sprint	Personnel	Medium (0.4)	2 (Critical)	Cross-train developers, maintain knowledge base, and assign backup personnel.
Incompatibility between frontend and backend	Technical	Medium (0.5)	2 (Critical)	Use contract-based API definitions (e.g., Swagger) and conduct integration testing early.
Database crash or loss of data	Technical	Low (0.3)	1 (Catastrophic)	Schedule regular database backups, and implement failover and recovery plans.
Project deadline slippage due to feature creep	Schedule	Medium (0.5)	3 (Marginal)	Strictly follow scope defined in Jira epics; review scope during daily Scrum stand-ups.
Frontend deployment fails on production	Deployment	Medium (0.6)	2 (Critical)	Use CI/CD pipelines with rollback support and staging environment testing.