**MedMate – Risk Strategies**

This document outlines the key potential risks associated with the MedMate – Smart Prescription & Medicine Tracker project. It includes their likelihood, impact level, and proposed mitigation strategies to ensure smooth project execution.

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| Risk Description | Impact Level | Likelihood | Mitigation Strategy | Remarks |
| Data Breach / Unauthorized Access | High | Medium | Use strong JWT authentication, bcrypt encryption, and HTTPS for secure communication. Restrict database access to authorized users only. | High priority – monitor continuously. |
| Server Crash / Downtime | High | Medium | Deploy backend on reliable platforms (Render/Heroku), enable auto-restart, and perform regular load testing. | Ensure uptime during deployment. |
| Data Loss from Database Errors | Medium | Medium | Add input validation, use regular database backups, and implement error handling in CRUD operations. | Database admin should verify backup weekly. |
| Reminder Notification Failure | Medium | Medium | Use reliable mailing APIs (Nodemailer/Gmail API), log failed jobs, and allow manual re-sending. | Validate cron job setup. |
| Project Timeline Delay | Medium | High | Follow weekly milestones, conduct team sync meetings, and use Trello/Slack for task tracking. | Project manager to monitor deadlines. |
| Browser / Device Incompatibility | Low | Medium | Test UI on multiple browsers and devices, and use responsive design principles (Flexbox/Grid). | Frontend team to test before final build. |
| Lack of User Adoption | High | Medium | Ensure the UI is simple and user-friendly, collect early feedback, and promote awareness among users. | UX testing recommended before deployment. |
| Scope Creep (Unplanned Feature Requests) | Medium | Medium | Stick to defined project scope, use Change Control Process, and avoid adding non-core features mid-phase. | Reject unplanned requests during build. |

**Top 3 Risks to Monitor Closely**

1. Data Breach / Unauthorized Access

2. Server Crash / Downtime

3. Project Timeline Delay