**MedMate – Risk Identification**

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| --- | --- | --- |
| **Risk** | **Mitigation Strategies** | **Remarks** |
| Data Breach / Unauthorized Access | 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 | Deploy backend on reliable platforms (Render/Heroku), enable auto-restart, and perform regular load testing. | Ensure uptime during deployment. |
| Data Loss from Database Errors | Add input validation, use regular database backups, and implement error handling in CRUD operations. | Database admin should verify backup weekly. |
| Reminder Notification Failure | Use reliable mailing APIs (Nodemailer/Gmail API), log failed jobs, and allow manual re-sending. | Validate cron job setup. |
| Project Timeline Delay | Follow weekly milestones, conduct team sync meetings, and use Trello/Slack for task tracking. | Project manager to monitor deadlines. |
| Browser / Device Incompatibility | 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 | 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) | Stick to defined project scope, use Change Control Process, and avoid adding non-core features mid-phase. | Reject unplanned requests during build. |

**Note:**

We have identified this risk by doing brain-storming , few examples from the internet to understand better about risks, also we have tried to maintain the industry standard practices to reach the required output without any hiccups.

**Name: HUSAIN AHMAD KHAN  
Seat Number: B23110006045  
Team Orbit**

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| **Risk** | **Likelihood** | **Impact** | **Risk score** |
| Personnel shortfalls | 5 | 7 | 35 |
| Unrealistic schedules and  budgets | 3 | 7 | 21 |
| Gold-plating | 4 | 5 | 20 |
| Continuing  stream of  requirements  changes | 3 | 5 | 15 |
| Shortfalls in  externally furnished  components | 5 | 7 | 35 |
| Shortfalls in  externally  performed tasks | 3 | 5 | 15 |
| Real-time  performance  shortfalls | 5 | 5 | 25 |

**Name: Rayyan Ibrahim  
Seat Number: B23110006137  
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| **Risk** | **Likelihood** | **Impact** | **Risk score** |
| Personnel shortfalls | 4 | 7 | 28 |
| Unrealistic schedules and  budgets | 2 | 5 | 10 |
| Gold-plating | 5 | 7 | 35 |
| Continuing  stream of  requirements  changes | 3 | 5 | 15 |
| Shortfalls in  externally furnished  components | 2 | 4 | 8 |
| Shortfalls in  externally  performed tasks | 3 | 5 | 15 |
| Real-time  performance  shortfalls | 6 | 9 | 54 |

**Name: Muhammad Hamza Abbas**

**Seat Number: B23110006096  
Team Orbit**

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| **Risk** | **Likelihood** | **Impact** | **Risk score** |
| Personnel shortfalls | 4 | 6 | 24 |
| Unrealistic schedules and  budgets | 3 | 6 | 18 |
| Gold-plating | 5 | 7 | 35 |
| Continuing  stream of  requirements  changes | 4 | 5 | 20 |
| Shortfalls in  externally furnished  components | 2 | 4 | 8 |
| Shortfalls in  externally  performed tasks | 3 | 5 | 15 |
| Real-time  performance  shortfalls | 4 | 5 | 20 |

**Name: Muhammad Hasan Khan**

**Seat Number: B23110006099  
Team Orbit**

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| **Risk** | **Likelihood** | **Impact** | **Risk score** |
| Personnel shortfalls | 4 | 5 | 20 |
| Unrealistic schedules and  budgets | 4 | 6 | 24 |
| Gold-plating | 6 | 5 | 30 |
| Continuing  stream of  requirements  changes | 5 | 6 | 30 |
| Shortfalls in  externally furnished  components | 3 | 3 | 9 |
| Shortfalls in  externally  performed tasks | 4 | 5 | 20 |
| Real-time  performance  shortfalls | 5 | 5 | 25 |

**Name: Muhammad Mujtaba**

**Seat Number: B23110006107  
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| **Risk** | **Likelihood** | **Impact** | **Risk score** |
| Personnel shortfalls | 5 | 6 | 30 |
| Unrealistic schedules and  budgets | 4 | 5 | 20 |
| Gold-plating | 6 | 5 | 30 |
| Continuing  stream of  requirements  changes | 3 | 5 | 15 |
| Shortfalls in  externally furnished  components | 3 | 4 | 12 |
| Shortfalls in  externally  performed tasks | 4 | 5 | 20 |
| Real-time  performance  shortfalls | 6 | 8 | 48 |

**Complete Risks with Average Score of each**

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Likelihood** | **Impact** | **Risk score** |
| Personnel shortfalls | 4.4 | 6.2 | 27 |
| Unrealistic schedules and  budgets | 3.2 | 5.8 | 19 |
| Gold-plating | 5.2 | 5.8 | 30 |
| Continuing  stream of  requirements  changes | 3.6 | 5.2 | 19 |
| Shortfalls in  externally furnished  components | 3.0 | 4.4 | 13 |
| Shortfalls in  externally  performed tasks | 3.4 | 5.0 | 17 |
| Real-time  performance  shortfalls | 5.2 | 6.4 | 33 |