Software Development Plan for Space Nav

**Project overview**

The objective of the StarGuide nav system is to provide users with real time information regarding their journey. We will attempt to integrate risk treatment strategies that focus on data security and system reliability

**Scope and Objective**

The project scope is satellite based traffic and weather updates along with secure user data management. The goal here is to mitigate the security risks, comply with data protection laws and protect data through the use of encryption

**Risk ID and assesment**

We aim to identify risks before they can hurt us, we aim to minimize system downtime along with operational inaccuracies. We will evaluate the different risks by probability and impact in order to prioritize high risk areas

**Risk treatment strategies**

The 4 risk treatment strategies we intent to follow are:

* Avoidance - modify scope to remove avoidable risks
* Mitigation - Implement encryption, secure protocols, and monitoring
* Transfer - Use secure third-party services as needed
* Acceptance - Accept minor risks with monitoring plans

**Development phases**

* Planning - align on scope and security to prevent scope creep
* Requirements Gathering - ensure requirements address security risks
* Design - perform peer reviews and include redundancies
* Development - secure coding practices, automated testing
* Testing - conduct rigorous testing
* Deployment & Maintenance - implement rollback plan and monitor systems post-deployment

**Monitoring and reporting**

We aim to continuously monitor and regularly assess risk levels to maintain high levels of awareness. We also aim to regularly update stakeholders of new risk statuses and treatment effectiveness

**Roles and responsibilities**

Assign responsibility for different roles and hire people best suited to the respective roles

**Review Cycles**

Annual review of development processes and risk management to adapt to new needs and requirements