

SIT 725

Applied Software Engineering

Task 5.1P

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Project Management: Task Decomposition

User Story

As a drone researcher and UAV flight enthusiast, **I want to** upload experimental UAV flight data and visualize 3D flight trajectories with network quality overlays, **so that** I can analyse the correlation between network degradation and UAV flight performance accuracy.

Sprint Backlog Tasks

Task #	Task Description	Estimated Hours
1	Set up database and create data storage structure for UAV flight data	4
2	Create user registration and login system with secure password protection	7
3	Build file upload page for UAV data files (supports CSV, JSON, TXT formats)	5
4	Create system to read and process uploaded flight data files	4
5	Build user homepage showing personal flight history and management tools	6
6	Create 3D flight path visualization using Three.js graphics library	8
7	Design database structure for saving user flight data and analysis results	5
8	Build features for users to view, edit, and delete their flight analysis data	6
9	Create analysis tools to calculate flight accuracy and network performance	5
10	Design responsive website layout that works on mobile phones and computers	6
11	Add user login session management and page access security protection	4
12	Create dashboard showing user's flight statistics and performance trends	7
13	Build detailed flight analysis view with downloadable report generation	5
14	Add error handling and user-friendly feedback messages throughout the website	3
15	Create user profile settings page for account management and preferences	3

Total Estimated Hours: 83 hours