WBS Dictionary – Transport Network Vehicle System (TNVS)

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| WBS Code | Element Name | Description | Deliverables |
| 1 | Project Planning & Initiation | Define goals, identify stakeholders, prepare documents and resources. | Project charter, objectives, resource plan. |
| 1.1 | Objectives & Scope | Improve efficiency, safety, monitoring, and coordination. | Clear project objectives. |
| 1.2 | Identify Stakeholders | Students, Admin, Drivers, IT Team. | Stakeholder list. |
| 1.3 | Project Documentation | Define roles, risks, responsibilities. | Project charter & risk plan. |
| 1.4 | Resource Planning | Assign people, tools, and budget. | Resource allocation plan. |
| 2 | System Design (Admin Side) | Collect requirements and design the system structure. | Requirements doc, database schema, UI design. |
| 2.1 | Requirements Gathering | Collect needs from users and admins. | Requirement specification. |
| 2.2 | Database Design | Tables for drivers, vehicles, passengers. | Database schema. |
| 2.3 | UI/UX Design | Navigation, dashboard, reports layout. | UI/UX mockups. |
| 2.4 | Security Planning | Authentication, encryption, backups. | Security plan. |
| 3 | System Development | Build and integrate system modules. | Working system modules. |
| 3.1 | Admin Module | Manage drivers, vehicles, bookings, reports. | Admin system. |
| 3.2 | Database Integration | Store booking data, logs, notifications. | Functional database. |
| 3.3 | Passenger Module | Booking, cancel ride, fare, payment. | Passenger app/module. |
| 3.4 | Security Features | Encryption, data protection, recovery. | Secure system. |
| 4 | Testing & Quality Assurance | Verify system functions correctly. | Test reports. |
| 4.1 | Unit Testing | Test individual features. | Unit test results. |
| 4.2 | Integration Testing | Check modules work together. | Integration report. |
| 4.3 | Debugging | Identify and fix issues. | Fixed system modules. |
| 4.4 | User Acceptance Testing | Get feedback from students, admin, drivers. | UAT feedback report. |
| 5 | Deployment & Implementation | Install and launch the system. | Live running system. |
| 5.1 | Install System | Setup server, database, app. | Installed system. |
| 5.2 | Configure Accounts | Create admin, driver, passenger accounts. | User accounts. |
| 5.3 | Train Users | Train admins, drivers, students. | Training manuals. |
| 5.4 | Live Monitoring | Monitor live usage. | Monitoring report. |
| 6 | Documentation | Provide user and admin manuals. | User/Admin manuals. |
| 6.1 | Admin Manual | Setup, monitoring, troubleshooting guide. | Admin manual. |
| 6.2 | Technical Guide | Booking, payments, cancel rides. | Technical documentation. |
| 6.3 | Policies & Guidelines | Usage, privacy, and security rules. | Policy guidelines. |
| 7 | Maintenance & Support | Keep the system updated and reliable. | Maintenance log. |
| 7.1 | System Monitoring | Track uptime, performance, errors. | Monitoring reports. |
| 7.2 | Troubleshooting | Fix admin, passenger, driver issues. | Issue resolution. |
| 7.3 | Updates & Enhancements | Add features, improve reports, UI/UX. | Updated system. |
| 7.4 | Feedback Collection | Collect from students, drivers, admin. | Feedback report & improvements. |