**F1**

**F1-Informatics**

**Vision**

**Version 1.0**

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**1. Introduction**

**1.1. Purpose**

The purpose of this document is to outline the vision and scope for the development of an F1 statistics tracking website. This platform will serve as a central resource for detailed statistics on F1 drivers and teams, providing fans, analysts, and teams with a comprehensive set of tools for data analysis and performance tracking.

**1.2. Scope**

This document defines the scope of the F1 stats tracking website project. It includes:

1. **Development of a Web-Based Platform:** A website designed to integrate and present F1 data from multiple sources.
2. **Initial Release Features:** Basic functionalities such as driver and team profiles, race results, and historical data.
3. **Future Expansions:** Additional features and enhancements based on user feedback and client requirements.

**1.3. Definitions, Acronyms, and Abbreviations**

1. **F1:** Formula 1, a premier international motor racing sport.
2. **API:** Application Programming Interface, a set of functions and protocols for accessing the website’s features.
3. **UI:** User Interface, the visual elements through which users interact with the platform.
4. **UX:** User Experience, the overall experience and satisfaction a user has with the website.
5. **GDPR:** General Data Protection Regulation, a regulation in EU law on data protection and privacy.

**1.4. References**

1. **Formula 1 Official Website:** [www.formula1.com](https://www.formula1.com/) for official F1 data and news.
2. **Data Providers:** Formula-1 API for acquiring accurate statistical data.
3. **Industry Standards:** Guidelines such as ISO/IEC 27001 for information security management.

**1.5. Overview**

This document provides a comprehensive overview of the F1 stats tracking website project, including its purpose, scope, and references. It details the positioning of the product, stakeholder and user descriptions, product features, and various requirements.

**2. Positioning**

**2.1. Business Opportunity**

The market for F1 statistics is fragmented, with limited comprehensive and user-friendly platforms. With a growing global interest in F1 racing, there is an opportunity to create a dedicated website that consolidates detailed F1 data, offers advanced analytical tools, and enhances user engagement.

**2.2. Problem Statement**

Current F1 data sources are scattered across multiple platforms, making it difficult for users to gather comprehensive information. A centralized platform is needed to integrate and present F1 statistics effectively.

**2.3. Product Position Statement**

The F1 stats tracking website will be positioned as the leading destination for F1 statistics. It will cater to casual fans, dedicated enthusiasts, and professional analysts by offering an intuitive interface and comprehensive data. The platform aims to provide a seamless experience for accessing and analysing F1 performance data.

**3. Stakeholder and User Descriptions**

**3.1. Market Demographics**

1. **F1 Fans:** Includes casual viewers and dedicated followers interested in accessing performance statistics.
2. **Professional Analysts:** Individuals or teams analysing F1 performance data for strategic or media purposes.
3. **F1 Teams and Media Outlets:** Organizations needing accurate and detailed data for analysis, reporting, and content creation.

**3.2. Stakeholder Summary**

1. **F1 Teams:** Use the platform for internal performance analysis and strategy development.
2. **Analysts:** Require comprehensive data for reporting and in-depth analysis.
3. **Media Outlets:** Utilize F1 data for creating news stories, reports, and multimedia content.

**3.3. User Summary**

1. **Casual Fans:** Seek easy access to basic statistics and race results.
2. **Dedicated Fans:** Desire more detailed performance metrics and historical data.
3. **Professional Users:** Require advanced analysis tools and customizable reporting features.

**3.4. User Environment**

1. **Desktop and Laptop Computers:** Primary devices for accessing the website, providing the best experience for detailed data exploration.
2. **Web Browsers:** Compatibility with major browsers (e.g., Chrome, Firefox) to ensure broad accessibility.

**3.5. Stakeholder Profiles**

**3.5.1. F1 Teams**

1. **Role:** Utilize the platform for internal analysis and strategy.
2. **Needs:** Accurate performance data, historical insights, and customizable reports.
3. **Expectations:** Reliable data, user-friendly interface, and integration with existing tools.

**3.5.2. Analysts**

1. **Role:** Analyse F1 data for strategic insights and reports.
2. **Needs:** Comprehensive data sets, advanced analytical tools, and historical trends.
3. **Expectations:** Robust analytics features, detailed data, and export options.

**3.5.3. Media Outlets**

1. **Role:** Create content based on F1 data.
2. **Needs:** Accurate and timely statistics, data visualization tools, and easy content integration.
3. **Expectations:** High-quality data, trend visualization, and data extraction ease.

**3.6. User Profiles**

**3.6.1. Casual Fan**

1. **Characteristics:** Enjoys watching F1 races and following key drivers and teams.
2. **Needs:** Access to basic statistics, race results, and general profiles.
3. **Goals:** Quickly find and understand essential F1 data.

**3.6.2. Dedicated Fan**

1. **Characteristics:** Follows F1 closely and seeks detailed insights.
2. **Needs:** In-depth performance metrics, historical data, and comparative tools.
3. **Goals:** Gain a deeper understanding of driver and team performance.

**3.6.3. Professional User**

1. **Characteristics:** Analyses F1 data for strategic or media purposes.
2. **Needs:** Advanced tools, detailed data, and customizable reporting.
3. **Goals:** Perform complex analysis and generate detailed reports.

**3.7. Alternatives and Competition**

1. **Alternative Platforms:** Other sites or apps offering F1 data but lacking comprehensive features.
2. **Competitors:** Established platforms like latifistreams, mazspin, sportssurge, overtakefans with similar data but possible limitations in features.

**3.8. Key Stakeholder or User Needs**

* + 1. **F1 Teams**
* **Needs:** Accurate and timely performance data, customizable analysis tools, and integration with existing systems.
* **Expectations:** Reliable, high-quality data that supports strategic decision-making and race preparation.

**3.8.2 Analysts**

* **Needs:** Comprehensive data sets, advanced analytical features, and historical performance trends.
* **Expectations:** Robust tools for in-depth analysis, easy data export options, and user-friendly interfaces.

**3.8.3** **Media Outlets**

* **Needs:** Access to up-to-date statistics, data visualization tools, and seamless content integration.
* **Expectations:** High-quality, easily accessible data for creating engaging and accurate content.

**3.8.4 Casual Fans**

* **Needs:** Quick access to basic stats, race results, and driver/team profiles.
* **Expectations:** Simple, intuitive navigation with essential F1 data presented clearly.

**3.8.5 Dedicated Fans**

* **Needs:** In-depth performance metrics, historical data, and comparative tools.
* **Expectations:** Detailed insights into F1 statistics with features that allow deeper engagement.

**3.8.6 Professional Users**

* **Needs:** Advanced analysis tools, detailed data, and customizable reporting options.
* **Expectations:** A platform that supports complex analysis with reliable and comprehensive data.

**4. Product Overview**

**4.1. Product Perspective**

The F1 stats tracking website will be an integrated platform offering a user-friendly interface for accessing and analyzing F1 data. It will leverage modern web technologies to ensure performance and scalability.

**4.2. Summary of Capabilities**

1. **Data Aggregation**: Consolidates data from multiple reliable sources.
2. **User Interface:** Intuitive design for ease of navigation.
3. **Reporting Tools:** Customizable reports and advanced analytics.

**4.3. Assumptions and Dependencies**

1. **Assumptions:** Reliable data sources, modern web browser access, and technological feasibility for advanced features.
2. **Dependencies:** Data provider collaboration, secure hosting, and ongoing support.

**4.4. Cost and Pricing**

1. **Development Costs:** Includes design, development, testing, and deployment.
2. **Pricing Model:** Freemium model with free features.

**4.5. Licensing and Installation**

1. **Licensing:** Terms of use, user rights, and restrictions.
2. **Installation:** Web-based platform requiring no physical installation.

**5. Product Features**

**5.1. Driver and Team Profiles**

1. **Details:** Includes career statistics, race results, and historical achievements. Users can view detailed profiles of drivers and teams.

**5.2. Interactive Dashboards**

1. **Details:** Visual representation of data trends and metrics. Allows interaction with charts and graphs for comparative analysis.

**6. Constraints**

1. **Data Accuracy:** Ensuring precision from multiple data sources.
2. **Technical Limitations:** Integrating and processing large data volumes.
3. **Budget Constraints:** Adhering to the allocated development and maintenance budget.

**7. Quality Ranges**

1. **Data Accuracy:** Targeting 95% accuracy.
2. **User Satisfaction:** Aiming for 90% satisfaction based on feedback.

**8. Precedence and Priority**

1. **High Priority:** Data accuracy, user experience, and core features.
2. **Medium Priority:** Additional features based on feedback.
3. **Low Priority:** Non-essential features for initial release.

**9. Other Product Requirements**

**9.1. Applicable Standards**

1. **Data Protection:** Compliance with GDPR and other data protection regulations.

**9.2. System Requirements**

1. **Hardware:** Servers with capacity for data processing and user traffic.
2. **Software:** Modern web development frameworks and database systems.

**9.3. Performance Requirements**

1. **Response Time:** Web pages should load within 3 seconds.
2. **Scalability:** Ability to handle increasing user traffic and data volume.

**9.4. Environmental Requirements**

1. **Accessibility:** Compatibility with various devices and operating systems.
2. **Security:** Robust measures to protect user data and ensure integrity.

**10. Documentation Requirements**

**10.1. User Manual**

1. **Content:** Comprehensive guide covering website features, navigation, and troubleshooting.

**10.2. Online Help**

1. **Content:** Contextual help, FAQs, and troubleshooting directly on the website.

**10.3. Installation Guides, Configuration, and Read Me File**

1. **Content:** Instructions for setup, configuration, and initial use.

**10.4. Labelling and Packaging**

1. **Content:** Documentation for labelling and packaging any distributed materials or components.

**11. Feature Attributes**

**A.1. Status**

1. **Current Status:** Development phase, completion percentage, and pending tasks.

**A.2. Benefit**

1. **Benefits:** Value added by each feature, such as enhanced user experience or advanced analysis.

**A.3. Effort**

1. **Effort:** Time and resources required for feature development and implementation.

**A.4. Risk**

1. **Risks:** Technical challenges and user adoption issues for each feature.

**A.5. Stability**

1. **Stability:** Expected reliability and robustness based on development and testing.

**A.6. Target Release**

1. **Release Date:** Planned timeline and milestones for feature release.

**A.7. Assigned To**

1. **Responsible Individuals:** Team members or departments responsible for development.