

SpeedSync App Software Requirements

1. User Authentication:

- Implement secure login and registration features using email or social media accounts.
- Ensure password encryption for user data protection.

2. User Profiles:

- Allow users to create, customize, and manage their profiles.
- Include fields for car make, model, year, modifications, profile picture,, and location.

3. Car Database:

- Maintain a comprehensive database of cars with specifications, including power-to-weight ratios, transmission style, what wheel drive it is, performance data, and images these will have to be input by the users on sign up and updated as the cars are modified.

4. Matching Algorithm:

- Develop an algorithm that matches users based on their car's power-to-weight ratio, location, overall ranking based on previous races, and availability.
- Provide options for users to set preferences for matching.

5. Race Scheduling:

- Enable users to schedule races with matched enthusiasts.
- Include options for specifying race details, such as location, date, time, and race format.

6. Ranking System:

- Create a ranking system that updates based on user race outcomes.
- Users should climb the ranking ladder by defeating opponents with higher power-to-weight ratios.

7. Messaging System:

- Implement a secure messaging feature for users to communicate with their matched racing partners.
- Ensure user privacy and data security in the messaging system.

8. Notifications:

- Send push notifications for race invitations, updates on ranking changes, and other relevant events.
- Allow users to customize their notification preferences.

9. Location Services:

- Integrate GPS functionality to determine user locations for race setup and tracking.
- Ensure user consent and privacy considerations for location data.

10. Safety Measures:

- Implement safety features, including reporting, blocking, and moderation, to ensure user security and prevent abusive behavior.
- Establish clear guidelines for community behavior and enforce them consistently.
- Enable a disclaimer on signing up to the app to ensure all races take part on private land or official race tracks.

11. User Reviews:

- Allow users to rate and review their racing experiences and opponents.
- Use reviews to build trust within the community and provide valuable feedback.

12. Payment Integration:

- Integrate a payment system to monetize tickets to large group racing, entry purchase to events etc. these one off payments can be heavily discounted or nullified if you pay a subscription membership which also allows you exclusive membership events and parts discounts.premium features or race entry fees).
- Ensure secure payment processing and compliance with payment industry standards.

13. User Support:

- Provide customer support channels, such as email or in-app chat, for users to reach out with questions or issues.
- Implement a help center or FAQs to address common user queries.

14. Privacy and Data Protection:

- Ensure compliance with data protection laws (e.g., GDPR, CCPA).
- Prioritize user privacy and data security in all aspects of app development and operation.

15. Cross-Platform Mobile Development:

- Develop the app for both iOS and Android platforms to reach a wider user base.
- Maintain platform-specific design and functionality where necessary.

16. Testing and Feedback:

- Conduct thorough testing, including beta testing with real users, to identify and fix any issues before the app's official release.
- Gather user feedback to continuously improve the app.

17. User Education:

- Create tutorials or guides within the app to help users understand how to use it effectively and safely.
- Provide clear onboarding instructions for new users.

18. Scalability:

- Design the app architecture to handle a growing user base and increased data load as the app gains popularity.
- Plan for scalability and performance optimization.