

SPORTSTER

Supervisor

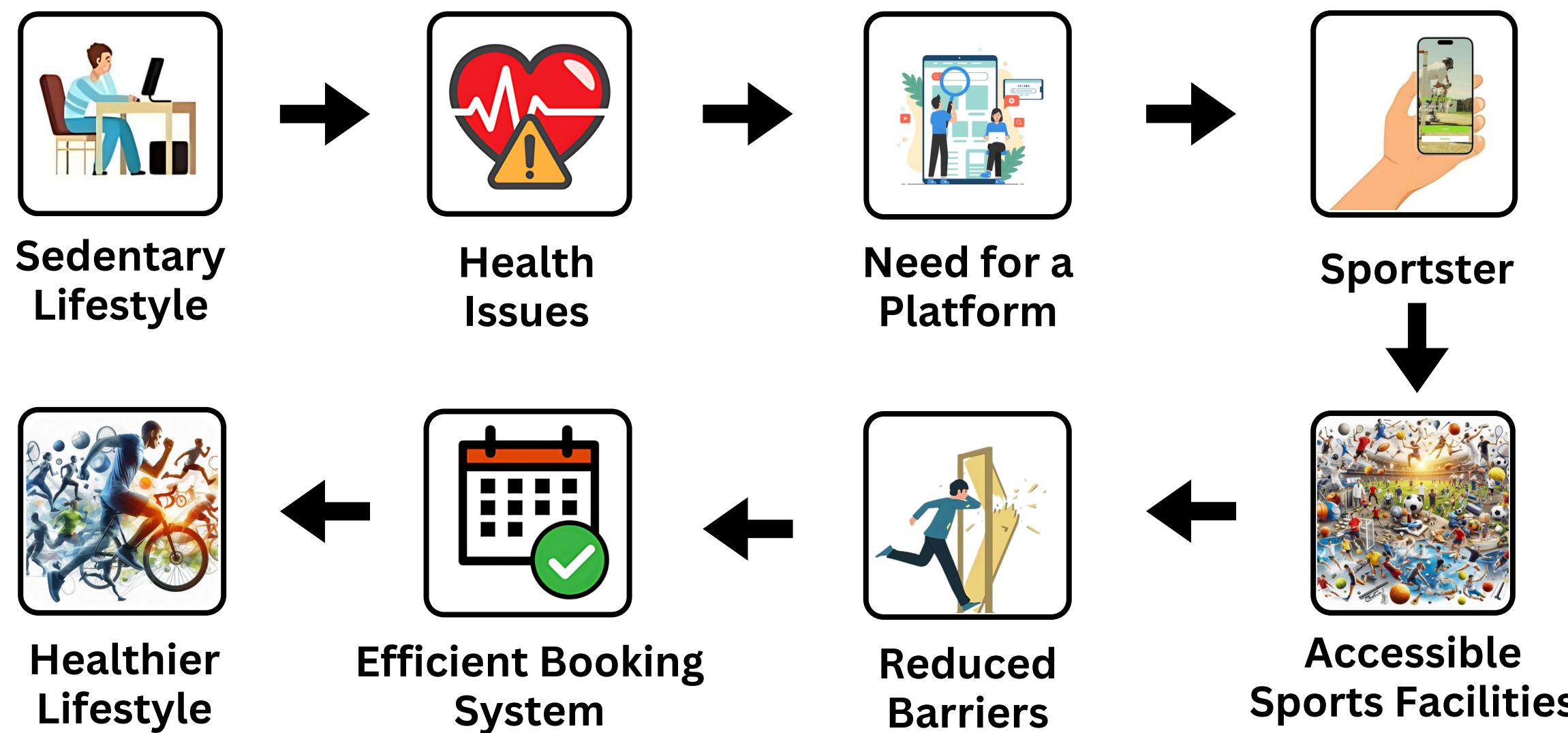
Mr. Ateeque Rahman

Co-Supervisor

Ms. Sidra Nasir

Motivation

Sedentary lifestyles lead to serious health issues like obesity and heart disease. Sportster makes it easier to stay active by providing an intuitive and efficient booking system for sports facilities, breaking down barriers to participation and promoting a healthier lifestyle.



Competitors



- No gym/fitness facilities
- Lacks social networking
- No mood feature
- No Sports store



- No gym/fitness facilities
- Lacks social networking
- No mood feature
- No Sports store



- No Sports facility booking
- Lacks social networking
- No mood feature
- No Sports store



- Lacks social networking
- No mood feature
- No Sports store

Architecture

Presentation Layer

- Real-time availability updates
- Booking confirmations
- User profile management
- Push notifications
- Social interaction tools
- UI components for activities
- Mood tracking
- Tournament scheduling
- Store interface
- Buddies management
- Cross-platform compatibility

Business Layer

- Booking management
- Notification handling
- User authentication & authorization
- Payment processing
- Social features (friends, groups)
- Event scheduling and management
- Mood tracking and analysis
- Tournament management
- Store management
- Data validation and processing
- Integration with Google Maps

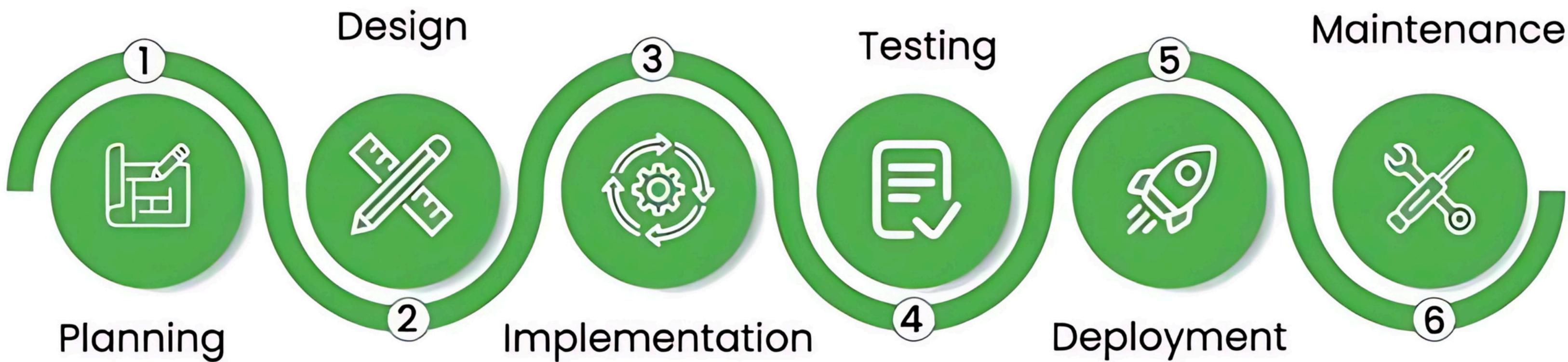
Data Layer

- Firebase real-time database
- User information storage
- Booking and transaction records
- Secure local payment gateways
- Mood tracking data storage
- Tournament data storage
- Store inventory and purchase records
- Buddies information storage
- Event and activity logs
- Data synchronization
- Backup and recovery mechanisms

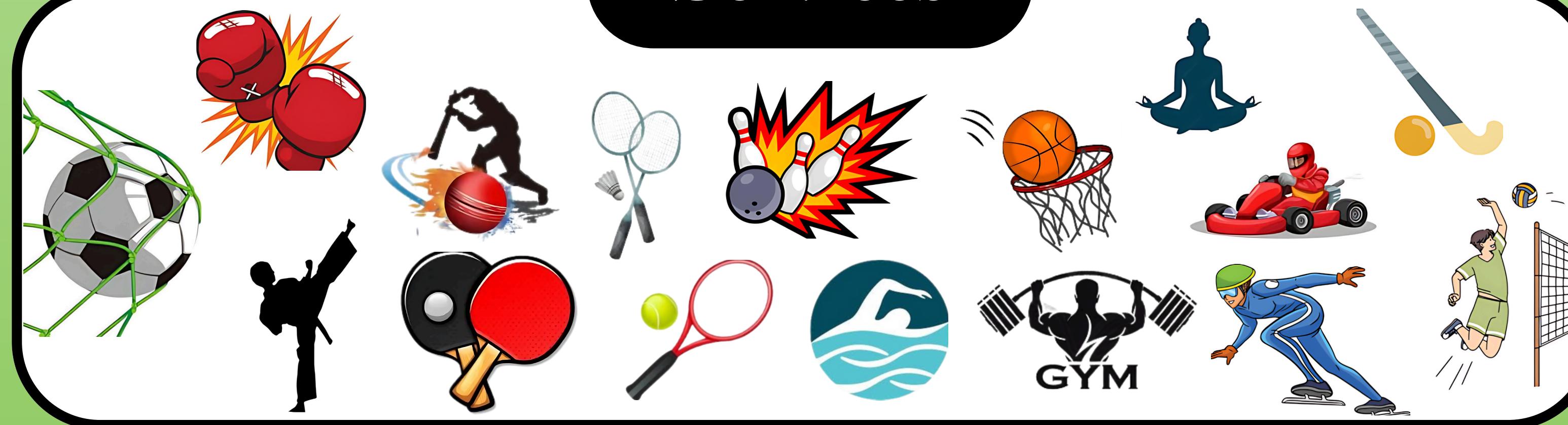
Collaboration



Developmental Cycle



Services



Where Health, Fitness, and Sports Unite to Thrive



References

- [1] O. Mendis and G. Rathnayake, "GoPlay - Sports Facility Reservation Application," in 2020 International Conference on Image Processing and Robotics (ICIP), Negombo, Sri Lanka, 06-08 March 2020, pp. 378, IEEE, DOI: 10.1109/ICIP48927.2020.9367349. https://doi.org/10.1007/978-981-99-2349-6_22
- [2] T. Claudius, M. P. Wicaksana, N. K. Sitorus, M. A. Gustiandza, T. Oktavia, F. L. Gaol, and T. Hosoda, "Sport Field Reservation Based on Mobile Application," in 2020 International Conference on ICT for Smart Society (ICISS), Bandung, Indonesia, 19-20 November 2020, IEEE, DOI: 10.1109/ICISS50791.2020.9307545. <https://doi.org/10.1109/ICISS50791.2020.9307545>
- [3] A. S. Nazare, K. T. Kundar, M. Y. Arfaath, R. Tejas, and S. L., "SPORTS ARENA BOOKING," International Research Journal of Modernization in Engineering Technology and Science, vol. 05, no. 05, May-2023, pp. 2304, DOI: <https://www.doi.org/10.56726/IRJMETS38463>.

Features

Profile Creation



Slot Posting and Search



Tournaments



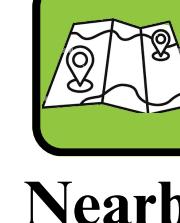
Buddies Request Accept & Reject



Join or Ignore Mood



Nearby Facilities



Slot Booking



Social Interaction



create and share Mood with buddies



Store for Authentic Goods



User Interface

