//MoraSpirit 360 presents

SpiritX

Inter University Development Competition

Stage 1

Xcelerate

Handbook

SpiritX

How to Approach Xcelerate

Hey Innovators! 😎
Welcome to Xcelerate , SpiritX 2025, an intense, exhilarating, and caffeine-fueled 36-hour hackathon! Over the next day and a half, you'll be putting your skills to the test by building **TWO mini projects** that will challenge your creativity, problem solving skills, and teamwork.
This is not just about coding, it's about pushing your limits, thinking outside the box, and walking away with something you're proud of. So gear up, stay focused, and most importantly, have fun!

Steps To success

Read the Submission Guidelines

Before you start, get familiar with what's expected. Understanding the end goal is key to a smooth journey.

Go Through This Booklet

We've put together everything you need to know. Read it carefully to avoid surprises later. Read the special note at the end of each project.

Start Coding!

Once you're clear on the requirements, dive into building your projects and bring your ideas to life!

SpiritX

Xcelerate Your Points: how to maximize your score?

Each project comes with a feature list that you're expected to complete. The features are categorized into three levels:

- **Easy** - Quick wins to get you started!
- **Medium** - A bit more challenging, but totally doable.
- **Hard** - These will push your skills and creativity to the max!

The more features you implement, the more points you earn. So aim to check off as many as possible to score the highest!

💡 **Pro tip**: Prioritize your tasks, manage your time wisely, and don't leave the hardest parts for the last minute.

Important Things to Keep in Mind: "The Xcelerate Code"

- **Teamwork Makes the Dream Work** – Communicate, delegate, and support each other. A strong team = a strong project.
- **Time Management is Key** – 36 hours sounds like a lot... until it's not! Plan your work and pace yourself.
- **Quality Over Quantity** – A well-executed project with a clean codebase is better than a rushed, incomplete one.
- **Don't Get Stuck for Too Long** – If you're facing a roadblock, seek help! Use resources, or even a fresh perspective from a teammate.
- **Stay Motivated & Have Fun!** – This is a marathon, not a sprint. Keep the energy high and enjoy the journey!

🔥 This is your moment to Xcelerate, innovate, and make something incredible. Let's make these 36 hours legendary!

Now, go forth and hack at full speed! 🚀💡🔥

SpiritX

Project 1 - SecureConnect

250 Points

(Your Gateway to a Safe Login System)

Welcome to SecureConnect, a secure and user-friendly authentication system! 🚀 In a world where security is key, your mission is to create a rock-solid signup and login system with proper validation, error handling, and user-friendly feedback.

With SecureConnect, users will:

- Sign up securely with a unique username and strong password.
- Log in smoothly and be greeted with a personalized message.

This project will test your ability to enforce validation rules, manage errors effectively, and create a polished user experience. Ready to Xcelerate your way to the top? Let's go!

Project Overview

SecureConnect consists of two main parts:

→ **Signup Page** : Where users create their accounts with a unique username and strong password.

→ **Login Page** : Where users sign in and are greeted with a friendly, personalized welcome page.

Each feature is assigned a difficulty level and points, so completing more features means a higher score. Aim for maximum points to climb the leaderboard! 🏆

Feature List and Points Breakdown

Signup Page (Total : 110 points)

📌 **Easy (30 Points)**

✅ (10 pts) Create three input fields – Username, Password, Confirm Password
✅ (10 pts) Display errors under each input field if validation fails
✅ (10 pts) Prevent signup if any field is empty

📌 **Medium (50 Points)**

✅ (10 pts) Ensure Username is at least 8 characters long and unique
✅ (15 pts) Password must contain:

- At least one lowercase letter
- At least one uppercase letter
- At least one special character

✅ (15 pts) Confirm Password must match Password before proceeding
✅ (10 pts) Implement real-time validation (display errors as the user types)

SpiritX

📌 Hard (30 Points)

✅ (10 pts) Display authentication-related errors above the CTA button
✅ (10 pts) After successful signup, show a confirmation dialog and automatically redirect the user to the login page after 2 seconds
✅ (10 pts) Implement a password strength indicator that dynamically updates based on password complexity

Login Page (Total: 140 Points)

📌 Easy (30 Points)

✅ (10 pts) Create two input fields – Username and Password
✅ (10 pts) Display errors under each field if validation fails
✅ (10 pts) Prevent login if fields are empty

📌 Medium (60 Points)

✅ (20 pts) Implement the same error handling and validation as the Signup Page
✅ (20 pts) Prevent login if username doesn't exist or password is incorrect
✅ (20 pts) Implement real-time validation (display errors as the user types)

📌 Hard (50 Points)

✅ (10 pts) Upon successful login, navigate the user to a landing page that displays:

- ✅ (10 pts) Display a message : "Hello, <username>!"
- ✅ (30 pts) Add basic session management to keep the user logged in until they click the "Logout" button in the landing page. Onclick the user is redirected to login page

Scoring Summary

- **Signup Page**: 110 Points
- **Login Page**: 140 Points
- **Total Possible Score**: 250 Points!

🚀 Ready to secure your place at the top? Start coding and Xcelerate your way to success! 🔥

📝 Special Note

This project must be completed with a fully integrated system consisting of a frontend, backend, and a database connected to it. The frontend should handle the user interface and user experience, the backend will manage business logic and data processing, and the database will store and retrieve data as needed. Each component must work together seamlessly to ensure the functionality and performance of the system.

SpiritX

Project 2- Spirit11

750 Points

(The Ultimate Inter-University Fantasy Cricket Game)

MoraSpirit is bringing cricket fans an exciting opportunity to engage with the Inter-University Cricket Tournament like never before!

Introducing **Spirit11,** a fantasy cricket league where users can build their own dream teams from real university players, analyze statistics, and compete with others for the top spot on the leaderboard.🚀

Your Team has been given the oppurtinity to make this project a reality, your task is to manage player data, oversee statistics, and ensure a smooth experience. As a user, you'll draft players, manage budgets, and strategize your way to victory. And to make things even better, our AI-powered Spiriter Chatbot will help users make smart picks!
🏆Can you build the ultimate team and dominate the leaderboard?

Project Overview

This project consists of three key parts:

- **Admin Panel** : Admin can manage players, their statistics, and the system logic.
- **User Interface** – Allow authenticated users to build and manage their fantasy teams.
- **AI Chatbot (Spiriter**) – Assists users with team selection and player insights.

A user can create an account and start playing the game with the initial budget of Rs.9,000,000, where he/she will create a team earn points depending on their team's performance and compete with others in the leaderboard. They can get assistance from Spiriter to create the best team possible!

Admin Panel
- "Players" View
- "Player Stats" View
- "Tournement Summary" view
- Auth Pages

User Interface
- Auth Pages
- "Players" View
- "Select your team" View
- "Team" View
- "Budget" View
- "Leaderboard"
- "Spiriter" (Chatbot)

Dataset Rules

- A dataset of players & stats will be provided.
- All players in the dataset should be inputted into the system.
- Teams must be selected using the given dataset ONLY.
- CRUD operations should only be used for newly created players.

Dataset

Google Drive Link: Click Here

Logic

Player Points

$$Player\ Points = \left(\frac{Batting\ Strike\ Rate}{5} + Batting\ Average \times 0.8\right) + \left(\frac{500}{Bowling\ Strike\ Rate} + \frac{140}{Economy\ Rate}\right)$$

$$\text{Batting Strike Rate} = \left(\frac{\text{Total Runs}}{\text{Total Balls Faced}}\right) \times 100$$

$$\text{Batting Average} = \frac{\text{Total Runs}}{\text{Innings Played}}$$

$$\text{Bowling Strike Rate} = \frac{\text{Total Balls Bowled}}{\text{Total Wickets Taken}}$$

$$\text{Economy Rate} = \frac{\text{Total Runs Conceded}}{\text{Total Balls Bowled}} \times 6$$

Player Value (Round it to the nearest multiple of 50,000)

$$\text{Value in Rupees} = (9 \times \text{Points} + 100) \times 1000$$

SpiritX

Feature List & Points Breakdown

Admin Panel (Total: 195 Points)

📌 Easy (60 Points)

✅ (10 pts) Create a “Players” View that displays all the players in the game .
✅ (20 pts) Create a “Player Stats” View to display detailed statistics of each player.
✅ (30 pts) Create an “Tournement Summary” view that shows the overall analysis of all players in the tournement, this should provide the admin the overall idea of the statistics
Stats to display :

- Overall runs (Total runs scored by all the players in the tournement)
- Overall wickets (Total wickets scored by all the players in the tournement)
- Highest run Scorer
- Highest wicket taker

📌 Medium (85 Points)

✅ (15 pts) Implement Create, Update, and Delete (CRUD) operations for players in the “Players” view. Here the update operation is done on player’s details and stats.
✅ (30 pts) Ensure the Player Stats Tab is properly formatted and readable. Here the admin can click on a player and learn about the player’s details , stats , value and points.
✅ (30 pts) Ensure Points and Value are dynamically calculated based on provided logic.
✅ (10 pts) Implement Admin-Only Authentication for the admin panel.

📌 Hard (50 Points)

✅ (50 pts) Implement real-time updates without requiring a refresh, ensuring that any changes in player statistics and details instantly reflect in the Admin Panel.

User Interface (Total: 360 Points)

📌 Easy (180 Points)

✅ (50 pts) Implement User Authentication, allowing users to Sign Up and Log In using only a username and password. when logged in user’s team details and everything he/she needs to proceed should be loaded. Only Authenticated users are alowed to browse the User Interface.
✅ (10 pts) Create a “Players” Tab where users can view all available players.
✅ (40 pts) When a player is clicked, show their Detailed Profile and stats in the “Players” tab. **Make sure to not show points of a player to user at any point in the User Interface.**

SpiritX

✅ (70 pts) Implement a “Select Your Team” Tab where users are directed to player categories. and when a category is selected all players in that category is listed and a user can select a player from that list and add to his team (only name , university and budget of player is displayed here). Make sure a user is not allowed to add a player already existing in his/her team unless removed from team.
✅ (10 pts) Create a “Team” Tab showing selected players and total points. Total points is only displayed when the team is completed (when all 11 players are added), Here a user can remove a player from his/her team. **Use the logic in the “Logic” section to calculate each player’s value with their points, do that to all 11 players and add them together to get team points.**

📌 **Medium (120 Points)**

✅ (10 pts) Ensure users can only view players in the "Players" tab (no selection).
✅ (50 pts) Create a view called “Budget” and Implement a budget tracking system for team selection. Here a user can see his leftover budget and see how much he has spent on each player in his/her team. **Users can only purchase players within their budget and when a player is removed from the team their value is added to the budget. Users are given an initial budget of Rs.9,000,000 .**
✅ (10 pts) Display team completeness status always (e.g., "7/11 players selected").
✅ (50 pts) Implement a “Leaderboard” showing username & points. This is ordered in the descending order of the points of each user. The logged in user has to be highlighted.

📌 **Hard (60 Points)**

✅ (50 pts) Implement real-time updates without requiring a refresh, ensuring that any changes in player statistics , details and team updates instantly reflect in the User Interface.
✅ (10 pts) Implement a fully responsive UI for all user-facing pages.

AI Chatbot - Spiriter (Total: 195 Points)

📌 **Medium (80 Points)**

✅ (80 pts) Implement a chatbot that responds to user queries about a player’s personal details and statistics. This should be implemented in the User Interface (Create a button called “Spiriter” which directs user to the ChatBot page)

📌 **Hard (115 Points)**

✅ (30 pts) AI chatbot suggests the best possible team of 11 players (the team with the highest possible points), No hardcoding.
✅ (45 pts) The chatbot should be able to answer user queries about any player’s stats.
✅ (20 pts) If a user asks about any detail not available in the dataset, the bot should reply: “I don’t have enough knowledge to answer that question.”
✅ (20 pts) Ensure the chatbot does not reveal player’s points under any circumstances.

SpiritX

Scoring Summary

- **Admin Panel**: 195 Points
- **User Interface**: 360 Points
- **Chatbot (Spiriter)**: 195 Points
- **Total Possible Score**: 750 Points!

📝 Special Notes

- The project must have a working frontend, backend, and database.
- All players in the dataset should be inputted into the system.
- CRUD operations should be tested using new players only (dataset should remain unchanged).
- **From stats to points logic and from points to player's value logic is given in the logic section. No custom point system is allowed. Please note that this logic is custom made for this particular project to ensure simplicity. After signup a user is given 9,000,000 as initial budget and has an empty team.**
- **Create a user account with the following credentials and select the following team:**

  Username: spiritx_2025

  Password: SpiritX@2025

  Team:

  - Danushka Kumara
  - Jeewan Thirimanne
  - Charith Shanaka
  - Pathum Dhananjaya
  - Suranga Bandara
  - Sammu Sandakan
  - Minod Rathnayake
  - Lakshan Gunathilaka
  - Sadeera Rajapaksa
  - Danushka Jayawickrama
  - Lakshan Vandersay

Can you build the ultimate fantasy cricket platform and outscore the competition? Time to Xcelerate and make Spirit11 a reality! 🚀

SpiritX

If you have any issues, Feel free to contact us! 📩

Shanil Praveen

Co-Chairperson
SpiritX

+94 71 957 7102

Donald Aadithiyan

Co-Chairperson
SpiritX

+94 77 360 9683

Seniru Dilmith

Pillar Head
Web and Technology

+94 71 462 5671

Devinda Dilshan

Assistant Pillar Head
Web and Technology

+94 76 388 1265