Sri Lanka Institute of Information Technology

Faculty of Computing

Information Technology Project – IT2080

Activity 03

Y2.S2.WD.IT.3.1

ITP25_B3_49

	Name With Initials	Registration Number	Contact Number	Email
1.	T.H.NIMNATH NADUSHKA	IT23294202	0714819888	It23294202@my.sliit.lk
2.	DISSANAYAKE H.M.T.S.M	IT23294066	0713555035	It23294066@my.sliit.lk
3.	LAKRUWAN W.M.K	IT23330382	0704206938	It23330382@my.sliit.lk
4.	DESHAPRIYA P.D.T.U	IT23247086	0772049318	It23247086@my.sliit.lk
5.	SAMARAWEERA T.T	IT23258044	0712818440	It23258044@my.sliit.lk

Project Introduction

The Matara City Football Club Website Development project aims to create a dynamic and user-friendly platform to streamline club operations and enhance fan engagement. The website will feature player and training management, financial tracking, merchandise sales, fan memberships, tournament scheduling, and ticketing systems. By adopting Agile methodologies, the project ensures flexibility, collaboration, and timely delivery of a robust platform that meets the needs of players, coaches, administrators, and fans.

IT23294202 – Player & Training Student Management

Features	User Story ID	User Story	Tasks
Player profile management	P1-US01	As a football club manager, I want to update player profiles through performance statistics and contract details to maintain correct data accuracy.	Design an easy-to-use profile edition interface that players can access.
Player performance tracking	P1-US02	I want to access performance analytics for players to make better team selection choices and training decisions.	The system should show performance metrics of all players through an integrated dashboard.
pdf performance reporting	P1-US03	as a coach, I want PDF reports for player performance statistics which will allow easy distribution of statistical insights.	integrate a pdf generation for the players performance.
search & filter player profiles	P1-US04	as a coach, I want a search tool that would enable me to find and control player profiles efficiently when looking for particular players according to selected criteria.	implement search and filter part in the page in order to make it easier.
Player contract management	P1-US05	As a club Manager, I want to manage control of player contracts demands management of salaries together with terms of duration.	Develop a dashboard which includes the start date and the end date of the contract with the monthly salary paid status.
Injury and recovery management	P1-US06	As a team doctor, I want systems to monitor player injuries and recovery to guarantee their physical safety.	Implement a dashboard to get the injury reports and recovery timelines.
AIdriven performance prediction	P1-US07	As a club coach, I want the AI system should use match analytics to identify potential while suggesting methods of improvement and the player performance in order for future macthes.	Integrate an AI analytics to generate the player performances and improvement suggestions .
Training progress tracking	P1-US08	As a coach, I want to training programs designed specifically for athletes according to their individual strengths and weaknesses.	Develop a training schedule system with player progress tracking.
Training schedule notifications	P1-US11	As a football training student ,must be able to see the upcoming training date for the next training day.	Implement a dashboard showing the next upcoming training date and notifying the next upcoming events

IT23294066 – Payments & Financial Management

Features	User Story ID	User Story	Tasks
Login to the system	P2-US01	A a finance manager, i want to securely log in to the system so that sensitive financial data can be protected	design a secure login interface; implement authentication; manage sessions; conduct security testing.
Player salary management	P2-US02	as a finance manager, i want to perform crud operations on player salary details so that payments are processed accurately.	build salary entry forms; develop api for crud; integrate with database; test functionality and data consistency.
Salary slip generation	P2-US03	as a finance manager, i want to generate salary slips in pdf format so that players have official records of their payments.	develop pdf generation module; integrate with salary data; test output with sample records.
Training fee management	P2-US04	as a financial officer, i want to manage training fees (with invoice generation and payment tracking) so that revenue from training is organized.	design fee management module; automate pdf invoice generation; integrate email confirmations; test payment tracking flows.
Petty cash management	P2-US05	as an accountant, i want to record daily petty cash transactions so that small expenditures are tracked in real time.	design and implement a petty cash module; enable transaction logging; generate daily pdf reports; perform tests with sample data.
Profit & loss reporting	P2-US06	as an accountant, i want to generate automated profit and loss statements so that i can monitor the club's financial performance.	build income and expense tracking; develop automated p&l statement generation; incorporate time filters; test with historical data.
Balance sheet & bank book management	P2-US07	as an accountant, i want to generate balance sheets and maintain a bank book so that the overall financial position is clearly documented.	integrate account balance tracking; develop bank book logging features; automate pdf balance sheet generation; validate calculations.
Detailed salary breakdown management	P2-US08	as a finance manager, i want to manage detailed salary components (basic salary, allowances, epf, etf, loans) so	expand the salary module to include breakdown fields; update the database schema; implement calculation routines; generate

| | | that payroll calculations are precise. | itemized pdf salary slips; test thoroughly. |

Member 3 – Product Sales & Fan Memberships

Features	User Story ID	User Story	Tasks
Login to the system	P3-US01	As a fan, I need to securely log into the system so that i can access merchandise and other membership features safely	design a secure login page; implement authentication and session management; conduct usability and security tests.
ecommerce product catalog (crud)	P3-US02A	As a fan, i want to view a product catalog with full crud operations so that i can browse available club merchandise.	develop product listing pages; implement crud functions for adding, editing, and deleting products; integrate with database; test thoroughly.
product catalog – search & filtering	P3-US02B	As a fan, i want to search and filter the products so that i can easily find interesting merchandise.	implement search functionality; design filtering options; conduct user testing for usability.
Secure checkout & invoice generation	P3-US03	as a buyer, i want a secure checkout process that generates a pdf invoice so that my purchase is properly documented.	integrate a payment gateway; develop a shopping cart module; automate pdf invoice generation; run end-to-end testing.
Membership plan management (crud)	P3-US04A	as a fan, i want to register and manage my membership plan so that i can access exclusive club benefits.	create membership registration and update forms; implement full crud operations; test registration and update workflows.
Exclusive membership benefits	P3-US04B	as a fan, i want to access exclusive membership benefits (e.g. discounts, early event access) so that i feel valued.	define benefit structure; integrate benefits display; test activation and tracking of benefits.
Membership certificate generation	P3-US04C	as a fan, i want to receive a digital membership certificate in pdf so that i have proof of my membership.	automate pdf certificate generation; integrate with membership registration process; test output format and quality.
Member-only content & offers	P3-US04D	as a fan, i want to access member-only content and special offers so that i can enjoy unique privileges.	develop a secure member portal; integrate exclusive content management; test access control.

IT23258044 – Tournament & Ticketing Management

Features	User Story ID	User Story	Tasks
Login to the system	P4-US01	As a manager, i want to securely log in to the system so that i can manage the tournaments and ticketing in an efficient way	design an organizer login UI implement role-based access control; perform authentication tests.
Tournament detail management (crud)	P4-US02A	As the Tournament Manager, i want to create, update, and remove tournament details so that events can be managed efficiently.	develop tournament crud modules; design user-friendly forms; integrate with database; conduct integration tests.
Tournament phase & standings management	P4-US02B	As the tournament Manager, i want to oversee tournament phases and track the team standings so that i can ensure the structure of the event is well organized.	build modules for phase and standings management; integrate tournament data; perform testing with sample data.
Tournament schedule & pdf generation	P4-US02C	As a tournament manager, i want to generate tournament schedules automatically in pdf format so that details will be easy to share.	design a scheduling module, integrate pdf generation functionality, Test the accuracy of generated schedules.
Tournament registration & team assignment	P4-US02D	As a club manager I want to manage the tournament registration and team assigning so that i can ensure participations and well organized.	develop registration workflows; implement team assignment logic; test various registration scenarios.
Ticket Booking	P4-US03A	As a fan, i want to view and purchase ticket so that i can participate in matches live.	build a ticket management interface, integrate with tournament ticket data, verify data consistency.
Secure ticket payment	P4-US03B	as a fan, i want to purchase tickets in a secured payment gateway so that my transactions are safe.	integrate secure payment gateway, enforce security protocols; perform end-to-end payment tests.
Digital ticket generation	P4-US03C	As a fan i want to receive digital ticket for my booking so that i can enter easily.	develop a digital ticket generation module, develop QR code generation

Ticket sales reporting	P4-US03D	As an organizer, i want to generate ticket selling reports in pdf format so that i can manage ticket revenue effectively.	build a reporting module; integrate ticket sales tracking; automate pdf report generation; validate report accuracy.
AI based seat pricing analysis	P4-US04	As a revenue manager, i want to use AI analysis to adjust seat pricing dynamically so that prices can be increased according to the demand.	integrate an AI based pricing system, build a dynamic pricing dashboard,
Match detail management (crud)	P4-US05A	As a fan, i want to update and view match schedules and results so that match data is kept up to date.	develop a module for match details; implement crud operations; test integration and data updates.
Match pdf report generation	P4-US05B	AS a fan, i want to download match schedules and results as pdfs so that i have a permanent record of match outcomes.	implement pdf generation for match data; integrate with match detail module; run accuracy tests.
Public match display	P4-US05C	as a fan, i want a dedicated public page to view upcoming matches and results so that i can plan my attendance effectively.	design a public match display page; integrate real-time data updates; test responsiveness and user experience.

IT23330382 – Additional Features & User Management

Features	User Story ID	User Story	Tasks
User login & profile management	P5-US01	as a user, i want to log in and manage my profile so that my personal and payment information remains up to date.	develop a secure login page; build a profile management dashboard; integrate update functions; perform thorough testing.
Password reset functionality	P5-US02	as a user, i want to reset my password securely so that i can regain access if i forget my credentials.	develop a password reset workflow; integrate email/sms verification; test complete process.
News & event management (crud)	P5-US03	as a visitor, i want to view, create, update, and delete news and events so that the club remains informative and current.	build a news and event management module; implement crud operations; design a blog-style page; test ui and data integration.

Newsletter subscription & pdf generation	P5-US04	as a visitor, i want to subscribe to a newsletter and receive updates in pdf format so that i can stay informed about club activities.	set up a newsletter subscription system; automate pdf newsletter generation; test email integration and output quality.
Event calendar integration	P5-US05	as a visitor, i want to view an interactive event calendar so that i can easily see upcoming club events.	develop an interactive calendar interface; integrate with event data; test usability and performance.
Match countdown clock	P5-US06	as a fan, i want a real-time countdown timer for the next match so that i know exactly when to tune in or attend.	build a countdown widget; integrate with match schedule apis; test timing accuracy and responsiveness.
ai chat bot	P5-US07	as a user, i want an ai-powered chat bot to quickly find answers and receive support so that navigating the site becomes easier.	integrate an ai chat bot module; design conversational flows; test functionality, responsiveness, and accuracy.
Review & comment posting	P5-US08	as a fan, i want to post reviews and comments about club content so that i can engage with other fans and provide feedback.	develop a review/comment interface; implement submission and retrieval functions; test with sample data.
Review moderation & sorting	P5-US09	as an admin, i want to moderate and sort reviews by date and rating so that only appropriate content is displayed.	build moderation tools; implement sorting and filtering features; test approval workflows.

2) Consolidated Product Backlog

Priority Scale: • 1 – highest priority   • 2 – normal priority   • 3 – less priority

Order ID	User Story ID	User Story	Estimated Hours	Priority	Status
PB-001	P1-US01	as a coach, i want to log in securely so that i can access all player and training management features.	8	1	to do
PB-002	P1-US02	as a coach, i want to perform crud operations on player profiles so that player records are accurate.	12	2	to do
PB-003	P1-US02B	as a coach, i want to record player performance metrics so that i can monitor progress.	10	2	to do
PB-004	P1-US02C	as a coach, i want to generate pdf reports for player performance so that i can share statistics easily.	8	2	to do
PB-005	P1-US02D	as a coach, i want to search and filter player profiles so that i can quickly find specific players.	8	2	to do
PB-006	P1-US02E	as a manager, i want to manage player transfers and contracts so that transfers are streamlined.	10	2	to do
PB-007	P1-US03	as a trainer, i want to perform crud operations on trainee profiles so that i can accurately track progress.	10	2	in progress
PB-008	P1-US03B	as a trainer, i want to record training progress and generate pdf reports so that i can monitor trainee development.	10	2	to do
PB-009	P1-US03C	as a trainer, i want to set up notifications for training schedules so that trainees are always informed.	6	2	to do
PB-010	P1-US04	as an administrator, i want to record attendance using a dynamic calendar so that i can generate pdf summaries.	8	1	to do
PB-011	P1-US05	as a coach, i want to track injuries and recovery so that i can manage player fitness effectively.	10	2	to do
PB-012	P1-US06	as a coach, i want to maintain a training schedule so that sessions are well organized.	8	2	to do
PB-013	P1-US07	as a coach, i want to use ai to forecast player performance so that i can make informed selections.	12	3	to do

PB-014	P1-US08	as a manager, i want to manage player contracts so that transfers and renewals are seamless.	10	2	to do
PB-015	P2-US01	as a finance manager, i want to log in securely so that financial data remains protected.	6	1	to do
PB-016	P2-US02	as a finance manager, i want to perform crud operations on player salary records so that payments are processed accurately.	10	1	to do
PB-017	P2-US03	as an admin, i want to integrate a secure payment gateway so that player payments are processed safely.	12	1	in progress
PB-018	P2-US04	as a financial officer, i want to manage training fees so that revenue from training is organized.	8	2	to do
PB-019	P2-US05	as an accountant, i want to record petty cash transactions so that small expenditures are tracked in real time.	8	2	to do
PB-020	P2-US06	as an accountant, i want to generate automated profit & loss statements so that i can monitor financial performance.	10	2	to do
PB-021	P2-US07	as an accountant, i want to generate balance sheets and maintain a bank book so that the club's finances are well documented.	10	2	to do
PB-022	P2-US08	as a finance manager, i want to manage detailed salary breakdowns so that payroll calculations are precise.	10	2	to do
PB-023	P3-US01	as a fan, i want to log in securely so that i can access exclusive merchandise and membership features.	6	1	to do
PB-024	P3-US02A	as a fan, i want to view a product catalog with full crud operations so that i can browse club merchandise.	10	2	in progress
PB-025	P3-US02B	as a fan, i want to search and filter merchandise so that i can easily find what i need.	10	2	to do
PB-026	P3-US03	as a buyer, i want a secure checkout that generates a pdf invoice so that my purchase is properly documented.	14	1	to do
PB-027	P3-US04A	as a fan, i want to register and update my membership plan so that i can access club benefits.	10	2	to do

PB-028	P3-US04B	as a fan, i want to access exclusive membership benefits so that i enjoy special privileges.	8	2	to do
PB-029	P3-US04C	as a fan, i want to receive a digital membership certificate in pdf so that i have proof of my membership.	8	2	to do
PB-030	P3-US04D	as a fan, i want to access member-only content and offers so that i feel valued.	8	2	to do
PB-031	P4-US01	as an organizer, i want to log in securely so that i can manage tournaments and ticketing efficiently.	6	1	to do
PB-032	P4-US02A	as an organizer, i want to perform crud operations on tournament details so that events are managed effectively.	12	2	to do
PB-033	P4-US02B	as an organizer, i want to manage tournament phases and standings so that the event structure is clear.	10	2	to do
PB-034	P4-US02C	as an organizer, i want to automatically generate tournament schedules in pdf so that event details can be easily shared.	12	2	to do
PB-035	P4-US02D	as an organizer, i want to facilitate tournament registrations and assign teams so that participants are organized properly.	10	2	to do
PB-036	P4-US03A	as a fan, i want to view and manage tournament ticket information via crud operations so that i can see available tickets.	10	2	to do
PB-037	P4-US03B	as a fan, i want a secure payment system for purchasing tickets so that my transactions are safe.	12	1	to do
PB-038	P4-US03C	as a fan, i want to receive digital tickets with qr codes in pdf format so that i can verify my entry easily.	14	1	in progress
PB-039	P4-US03D	as an organizer, i want to generate pdf sales reports for tickets so that i can monitor ticket revenue effectively.	10	2	to do
PB-040	P4-US04	as a revenue manager, i want to use ai to adjust ticket prices dynamically so that pricing reflects demand accurately.	16	3	to do
PB-041	P4-US05A	as a fan, i want to perform crud operations on match schedules and results so that match data is kept up to date.	10	2	to do

PB-042	P4-US05B	as a fan, i want to download match schedules and results as pdfs so that i have permanent records.	10	2	to do
PB-043	P4-US05C	as a fan, i want a public page displaying upcoming matches and results so that i can plan my attendance.	8	2	to do
PB-044	P5-US01	as a user, i want to log in securely so that i can access personalized content and exclusive features.	6	1	in progress
PB-045	P5-US02	as a new user, i want to register an account so that i can start using the system.	10	1	to do
PB-046	P5-US03	as a user, i want to update my profile so that my information remains current.	8	2	to do
PB-047	P5-US04	as a user, i want to reset my password securely so that i can regain access if i forget it.	8	1	to do
PB-048	P5-US06	as a user, i want a comprehensive profile management dashboard so that i can update my personal and payment details easily.	10	2	in progress
PB-049	P5-US10	as a visitor, i want to have the need to browse club news alongside events and subscribe to announcements in order to stay updated.	8	2	in progress
PB-050	P5-US10B	as a visitor, i want to subscribe to a newsletter that will deliver PDF documents about club activities while visiting.	8	2	to do
PB-051	P5-US10C	as a visitor, i want to visit the website to access an interactive event calendar which displays all forthcoming events together.	8	2	to do
PB-052	P5-US11	as a fan, i want to receive an automatic next match countdown timer through the platform to determine the ideal viewing time.	6	3	to do
PB-053	P5-US12	as a user, i want an ai chat bot so that i can quickly find information and receive support while navigating the site.	8	3	to do
PB-054	P5-US08	as a fan, i want to post reviews and comments so that i can engage with other fans and provide feedback.	10	2	to do

PB-055	P5-US09	as an admin, i want to moderate and sort reviews by date and rating so that only appropriate content is displayed.	8	2	to do

3) Unified Sprint Plan

sprint 1 – foundational mvp (weeks 1–2)

focus: core login functions and essential crud modules.

Priority	Product Backlog Item	Tasks	User Story ID	Est. Hours	Owner
1	pb-001: login – player & training management	create the login user interface and both implement authentication functions while conducting unit tests.	p1-us01	8	IT23294202
2	pb-002: crud for player profiles	Implement the following sequence design db schema, and creates ui forms before running crud tests.	p1-us02	12	IT23294202
2	pb-003: training student management	create trainee registration form development and progress monitoring as well as pdf report generation and performance evaluation components.	p1-us03	10	IT23294202
1	pb-010: attendance management for players & trainees	Create a dynamic attendance calendar alongside backend logic and pdf generation capabilities and should include end-to-end testing.	p1-us04	8	IT23294202
1	pb-009: login – payments & financial management	create a safe login interface while authentication methods should be incorporated and security examinations conducted.	p2-us01	6	IT23294066
1	pb-016: crud for player salary management	Payment gateway integration compliance measures while implementing error management and performing extended tests.	p2-us02	10	IT23294066

1	pb-023: login – product sales & fan memberships	build building secure login functions and authentication systems and running usability tests.	p3-us01	6	IT23247086
2	pb-024: product catalog – crud operations	establish product listing pages which contain complete crud functionality then check the db integration process through testing.	p3-us02a	10	IT23247086
1	pb-031: login – tournament & ticketing management	implement rolebased access; test authentication.	p4-us01	6	IT23258044
1	pb-044: login – additional features & user management	Build a secure login system and add authentication functions and confirm user sessions while performing full system testing.	p5-us01	6	IT23330382
1	pb-045: registration (user management)	Create the registration form while enabling input validation as well as email verification and examining the entire process flow.	p5-us02	10	IT23330382
2	pb-046: profile update (user management)	develop a profile update interface and integrate it with the database system and conduct usability tests on it.	p5-us03	8	IT23330382
1	pb-047: password reset (user management)	The reset workflow will be built with email and SMS verification added to it followed by end-to-end process testing.	p5-us04	8	IT23330382

sprint 1 outcome: an mvp featuring working login systems, foundational crud for player/trainee management and financial functions, plus basic user registration and password reset.

sprint 2 – enhanced functionality (weeks 3–4)

focus: expanded financial modules, secure checkout, tournament scheduling, and enriched user management and content.

Priority	Product Backlog Item	Tasks	User Story ID	Est. Hours	Owner
1	pb-018: training fee management	develop fee management module; automate pdf invoice generation; integrate email confirmations; test workflows.	p2-us04	8	IT23294066
2	pb-019: petty cash management	implement petty cash recording; enable transaction logging; generate daily pdf reports; test accuracy.	p2-us05	8	IT23294066
2	pb-020: profit & loss reporting	build income/expense tracking; generate automated p&l statements; implement time filters; test accuracy.	p2-us06	10	IT23294066
2	pb-021: balance sheet & bank book management	develop account balance tracking; create bank book logs; automate balance sheet generation; run integration tests.	p2-us07	10	IT23294066
2	pb-022: detailed salary breakdown management	upgrade salary module to include detailed breakdowns; perform calculations; generate itemized pdf slips; test module.	p2-us08	10	IT23294066
1	pb-026: secure checkout & invoice generation	integrate secure checkout system; develop shopping cart; automate pdf invoice generation; perform full testing.	p3-us03	14	IT23247086
2	pb-027: membership registration & renewal	design membership signup and renewal forms; implement full crud; generate membership certificates in pdf; test process.	p3-us04a	10	IT23247086

Priority	Product Backlog Item	Tasks	User Story ID	Est. Hours	Owner
2	pb-028: fan membership – exclusive benefits	define exclusive membership benefits; integrate with benefits display; test activation and tracking.	p3-us04b	8	IT23247086
2	pb-032: tournament management & scheduling	develop tournament crud modules; implement scheduling; integrate automatic pdf generation; test integration.	p4-us02a	12	IT23258044
1	pb-033: ticket booking & digital ticketing	design ticket booking interface; integrate secure payment; implement digital ticket (qr code) generation; test flow.	p4-us03b	14	IT23258044
2	pb-053: news, events & announcements	build a blogstyle page for news and events; implement crud for events; integrate newsletter subscription and pdf generation; test functionality.	p5-us10	8	IT23258044

sprint 2 outcome: enhanced functionalities across financial modules, secure checkout, tournament scheduling/ticketing enhancements, and an enriched news and events system.

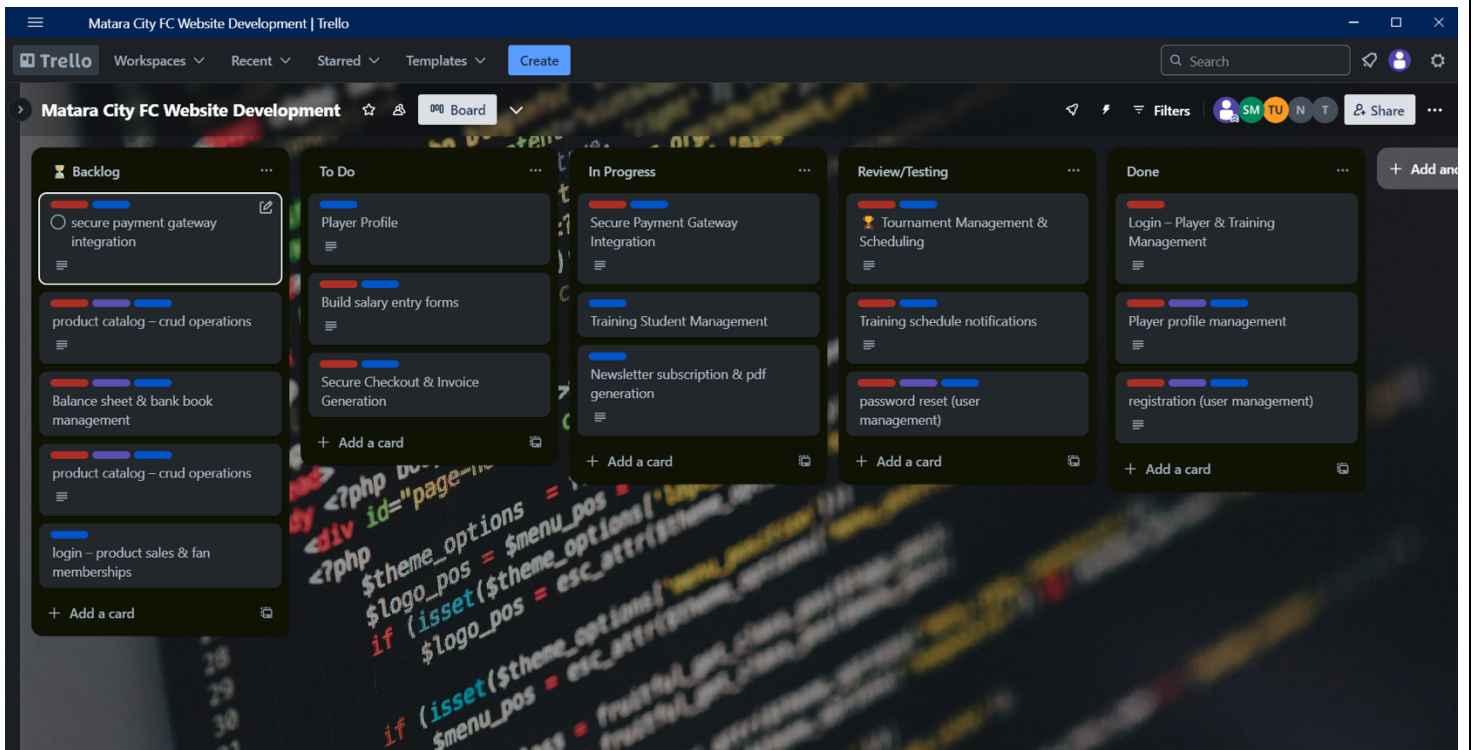**sprint 3 – final integration & advanced features (weeks 5–6)**

focus: full system integration, advanced analytics, ai enhancements, and comprehensive qa.

Priority	Product Backlog Item	Tasks	User Story ID	Est. Hours	Owner
3	pb-013: aidriven performance prediction for players	Integrate an ai module after which create the prediction dashboard and perform simulation tests following precision validations.	p1-us07	12	IT23294202
2	pb-014: player contract management	The implementation includes building contract management features while integrating with player profiles while implementing automatic PDF creation together with complete testing processes.	p1-us08	10	IT23294202
1	pb-011: injury & recovery	build injury reporting forms built while recovering	p1-us05	10	IT23294202

	management for players	software tracks injured and automates the creation of PDF reports for complete functionality testing.			
3	pb-040: AI-based seat pricing analysis	implement an AI pricing system and create interactive pricing analytics while running demand projections with complete testing procedures.	p4-us04	16	IT23258044
2	pb-042: match schedules & results – pdf generation	automate pdf production for match schedules and results while enabling public display integration with accuracy tests.	p4-us05b	10	IT23258044
2	pb-043: public match display	implementation of a public match results page coupled with live updates which need testing for optimum performance.	p4-us05c	8	IT23258044
3	pb-051: user reports (user management)	development process of an admin interface for user reports alongside data visualization integration features and complete testing of regression functionality and report refinement work.	p5-us09	10	IT23330382
3	pb-056: match countdown clock (user management)	Create a real-time countdown widget that will integrate Match Schedule APIs for real-time implementation followed by testing for both precision and screen reaction time.	p5-us11	6	IT23330382
3	pb-057: ai chat bot (user management)	implement the ai chat bot while creating its conversational structure and conduct tests to evaluate functionality and responsiveness as well as precision.	p5-us12	8	IT23330382
1	pb-058: final integration & QA	Full system integration takes place prior to running extensive regression tests along with security tests and performance tests for product release preparation.	qa/all	10	all members

sprint 3 outcome: a fully integrated, qaapproved product featuring advanced analytics, aienhanced modules, and complete system reliability—ready for production.

4) Kanban Board Setup

https://trello.com/b/RZbOx6vF/matara-city-fc-website-development