

ITP Assignment
Activity 3
Activity 03_ITP25_B2_C1-45



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1. Product Backlog

- **Priority – High** (must have) | **Medium** (should have) | **Low** (could have)
- **Story Points - 1** (very easy) | **2** (easy) | **3** (moderate) | **5** (complex) | **8** (very complex)

User story ID	User Story	Priority	Agile Estimation (SP)	Status
W04	“As an admin I want to generate user activity reports so that I can monitor user engagement.”	High	3	Pending
W02	“As a User, I want to log in using my email and password so that I can access my personal dashboard.”	High	2	Pending
W01	“As a User, I want to create a new account so that I can access the system.”	High	2	Pending
U06	“As an administrator, I want to add, update, and remove rental notices so that I can ensure users receive accurate information.”	High	3	Pending
U05	“As a user, I want to receive notifications about rental item updates so that I can stay informed about availability and important changes.”	High	8	Pending
U04	“As an administrator, I want to manage rental items by adding, updating, or removing them so that the rental inventory remains accurate.”	High	5	Pending
U03	“As a system, I want to display the availability status of each rental item per day so that users can know when an item is free to rent.”	High	8	Pending
U02	“As a user, I want to book a rental item after selecting it so that I can secure the equipment for my event.”	High	8	Pending
U01	“As a user, I want to filter rental items based on my specific needs so that I can quickly find the equipment I need.”	High	8	Pending
P06	“As an Admin I want to track , respond and mange customer inquiries So that I can provide timely and accurate support.”	High	5	Pending
P03	“As an Admin I want to monitor and manage payments So that I can ensure smooth transactions and resolve any payment related issues”	High	5	Pending
P02	“As a customer I want to receive an invoice and confirmation for my booking and rental items so that I have a record of my payment”	High	8	Pending

P01	“As a customer I want to make payments So that I can get the services and rental items.”	High	8	Pending
G03	“As a customer, I want to submit a review, so that I can share my experience with other people regarding the service provided by the photography system.”	High	3	Pending
G02	“As a customer, I want to track my delivery in real-time, so that I can stay updated on when my order will arrive.”	High	5	Pending
G01	“As a delivery person, I want to view all the delivery locations on a map, so that I can efficiently find the delivery addresses.”	High	8	Pending
B03	“As a customer, I want to add packages to a shopping cart so that I can customize packages.”	High	5	Pending
B01	“As a customer, I want to view package details, so that I can select a suitable package.”	High	8	Pending
W03	“As a User, I want to reset my password if I forget it so that I can regain access to my account.”	Medium	3	Pending
P04	“As a customer I want to ask about their services , pricings, and bookings So that I can book a package for my needs. ”	Medium	3	Pending
G06	“As a user, I want to view published blogs, so that I can get an idea about the quality of the services provided by the photographers.”	Medium	2	Pending
G05	“As an admin, I want to publish blogs about conducted events, so that I can share the updates and highlights with users.”	Medium	3	Pending
B04	“As an admin, I can upload photos to the website so that anyone can view public photo albums”	Medium	5	Pending
B02	“As a photographer, I want to see available bookings on the google calendar, so that I can easily manage schedule.”	Medium	8	Pending
W06	“As a User, I want to enable two-factor authentication so that my account has an extra layer of security.”	Medium	5	Pending
P05	“As a customer, I want to read , update or cancel my inquiries so that I can make changes based on my preferences or updated plans.”	Medium	3	Pending
W07	“As a User, I want to receive an email notification when my account details are changed so that I can be aware of any unauthorized activity.”	Low	3	Pending

W08	“As an admin I want to export reports in different formats so that I can share them easily.”	Low	2	Pending
W05	“As an admin I want to filter reports by date, user role, and activity type so that I can analyze specific data.”	Low	3	Pending
G04	“As a user, I want to search and filter reviews, so that I can easily find the specific reviews according to my interests.”	Low	5	Pending
B05	“As an admin I can upload photos through a UI page that connected to “Cloudinary” software, so that customers can view private albums”	Low	5	Pending

2. Sprint Breakdown

Sprint 1 (first 2 weeks)

User story ID	Backlog item	Task	Estimated hours	Priority
W01	User Management	<ul style="list-style-type: none"> Task W01.1: Implement User backend Task W01.2: Implement User frontend Task W01.3: Design the user login page (UI/UX) 	5	High
W02	Display User details	<ul style="list-style-type: none"> Task W02.1: Implement customer form Interface Task W02.2: Implement backend login for user registration. 	4	High
B01	Package Management	<ul style="list-style-type: none"> Task B01.1: Implement package backend Task B01.2: Implement package frontend Task B01.3: Validate package data on the frontend and backend. 	5	High
B03	Shopping cart	<ul style="list-style-type: none"> Task B03.1: Implement cart backend. Task B03.2: Implement cart frontend. Task B03.3: Connect packages page with shopping cart using a “Add-to-cart” button 	3.5	High
P01	Make Payments	<ul style="list-style-type: none"> Task P01.1: Implement payment gateway integration (Stripe API) Task P01.2: Implement payment frontend and backend. Task P01.3: Design payment page (UI/UX). 	5	High
P03	Display payment details	<ul style="list-style-type: none"> Task P03.1: Implement payment monitoring interface. Task P03.2: Create refund management functionality. 	3	High
U01	Manage rental items	<ul style="list-style-type: none"> Task U01.1: Design and implement UI for Rental services page Task U01.2: Develop backend API endpoints to handle item CRUD operations. Task U01.3: Design the frontend interface for admins to manage items. Task U01.4: Implement item information uploading feature 	4	High

U02	Displaying Availability Status	<ul style="list-style-type: none"> Task U02.1: Implement a availability view for each item Task U02.2: Fetch real-time availability data and display it dynamically 	5	High
G02	Delivery tracking	<ul style="list-style-type: none"> Task G02.1: Setup database to store delivery details Task G02.2: Setup backend for delivery management Task G02.3: Setup frontend for delivery management 	4.5	High
G01	Map Integration	<ul style="list-style-type: none"> Task G01.1: Integrate maps to track delivery addresses using Leaflet Task G01.2: Design map interface to show delivery markers and details Task G01.3: Implement delivery status updating process 	5	High

Outcomes -

- P01,P03 – A fully implemented Payment gateway and payment monitoring interface where users can make payments and read their payment details.
- G01, G02 - Completed delivery management system with database setup, backend and frontend integration with Leaflet map integration for tracking deliveries.
- B01 – Fully implemented Package details page where users can view, select and book packages.
- B03- Fully implemented Shopping Cart feature integrated to the existing package implementation.
- W01-A fully functional user authentication system with a secure backend for handling user credentials, a responsive frontend for user login and account management, and a well-designed UI/UX login page that ensures a smooth and intuitive user experience
- W02- User registration system where customers can register through a well-designed interface, and the backend securely processes and stores user data with authentication and validation mechanisms
- U01, U02 – Fully implemented Rental services management system page with database setup, backend and frontend integration and customer can filtering view rental item information and customer can view availability of items

Sprint 2 (second 2 weeks)

User story ID	Backlog item	Task	Estimated hours	Priority
W03	User Management	<ul style="list-style-type: none">Task W03.1: Implement frontend UI for user registrationTask W03.2: Validate user input on the front end	5	High
W02	Admin Dashboard	<ul style="list-style-type: none">Task W02.1: Implement dashboard backendTask W02.1: Implement dashboard frontendTask W02.1: Implement frontend UI for displaying user activity report	4	High
B02	Schedule Management	<ul style="list-style-type: none">Task B02.1: Implement booking interface.Task B02.2: Set up Google Calendar API integration.Task B02.3: Implement functionality to add bookings to Google Calendar automatically.	4	High
B04	Public Photo Gallery Management	<ul style="list-style-type: none">Task B04.1: create gallery frontend.Task B04.2: create gallery backend.Task B04.3: add filtering functionality	3	Medium
P02	Receive invoices	<ul style="list-style-type: none">Task P02.1: Design invoice template.Task P02.2: Implement backend logic to generate and send invoices.	3	High
P05	Display inquiry details	<ul style="list-style-type: none">Task P05.1: Implement read, update/cancellation feature.(CRUD)Task P05.2: Add confirmation before cancellation.	3	Medium
P06	Manage inquiries	<ul style="list-style-type: none">Task P06.1: Implement inquiry management Page.Task P06.2: Add sorting & prioritization of inquiries.	3.5	High
G03	Review Management	<ul style="list-style-type: none">Task G03.1: Setup backend for review managementTask G03.2: Setup frontend for review management	4	High
G05	Blog Management	<ul style="list-style-type: none">Task G05.1: Setup backend for blog management	4.5	Medium

		<ul style="list-style-type: none"> Task G05.2: Setup frontend for blog management Task G05.3: Implement image uploading feature 		
U03	Managing Rental Notices	<ul style="list-style-type: none"> Task U03.1: Design and implement UI for Notices page Task U03.2: Implement scheduling functionality to send notifications. Task U03.3: Implement notice page frontend and backend 	3	High
U04	Managing real time notification	<ul style="list-style-type: none"> Task U04.3: Fetch real-time data and display notices it dynamically. 	3	High

Outcome –

- P02 – A system is implemented to generate invoices
- P04 – Users can read, update, and cancel inquiries with a confirmation prompt before cancellation, providing better control over inquiry management.
- P06 - An inquiry management page is created with sorting and prioritization features to enhance efficient handling of inquiries.
- G03 – Developed review management modules with complete backend APIs and frontend interfaces.
- G05 – Built blog management function with complete backend, frontend, and image uploading capabilities.
- B02- Fully functional booking interface integrated to Google Calendar
- B04- Visually appealing and responsive Photo Gallery with filtering option according to package name.
- U03- Fully implemented Rental services management system page with database setup, backend and frontend integration
- U04 – Customer sent notices fetch real time .
- W03 - User-friendly and responsive registration interface with proper input validation, ensuring accurate and secure data entry before submission to the backend.
- W02- A fully functional admin dashboard with a backend to process data, a frontend to display user activity reports, and a well-designed UI for effective monitoring and analysis of user engagement

Sprint 3 (last 2 weeks)

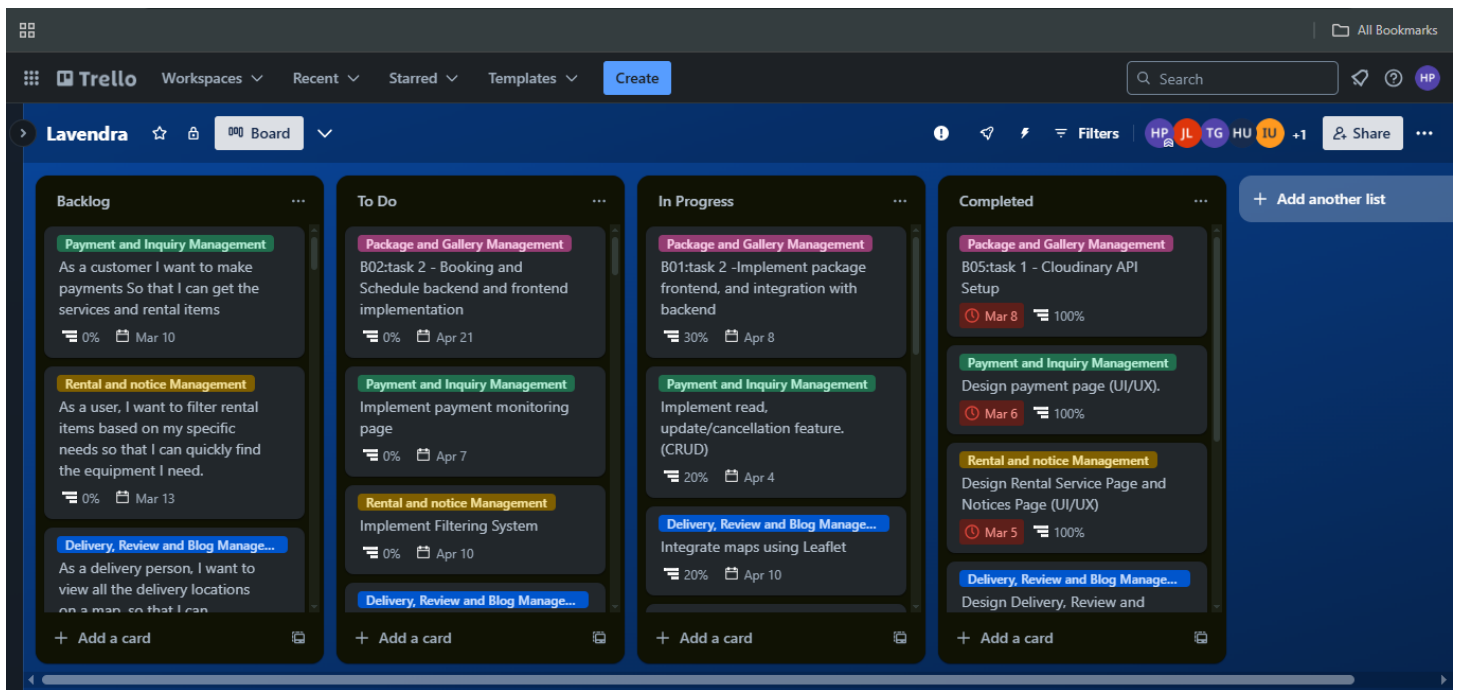
User story ID	Backlog item	Task	Estimated hours	Priority
W07	User Management	<ul style="list-style-type: none">Task W07.1: Validate User data on the backendTask W07.2: Send account verification email after registering	5	Low
W08	Display Admin Dashboard details	<ul style="list-style-type: none">Task W08.1: Implement filtering optionTask W08.2: Implement export functionalityTask W08.3: Optimize performance for large data set in report.	5	Low
B05	Private gallery management using Cloudinary	<ul style="list-style-type: none">Task B04.1: Set up Cloudinary configuration and API.Task B04.2: setup backendTask B04.3: setup frontendTask B04.4: connect Cloudinary software with frontend UI	4	Low
P04	Make inquiries	<ul style="list-style-type: none">Task P04.1: Implement inquiry submission form.Task P04.2: Store inquiries in the database.Task P04.3: Test inquiry submission functionality.	3	Medium
G04	Review special features	<ul style="list-style-type: none">Task G04.1: Add rating systemTask G04.2: Add searching and filtering functionality	4	Low
G06	Blog viewing	<ul style="list-style-type: none">Task G06.1: Design blog displaying interfaceTask G06.2: Add searching and filtering functionality	3.5	Medium
U05	Manage Rental Items	<ul style="list-style-type: none">Task U05.1: Implement Rental services management Page.Task U05.2: Update availability in rental itemsTask U05.3: Add searching and filtering functionality	3	High
U06	Notices viewing	<ul style="list-style-type: none">Task U06.1: Setup backend and frontend in notices page.	3	High

		<ul style="list-style-type: none"> Task U06.1: Test send notification functionality 		
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Outcomes –

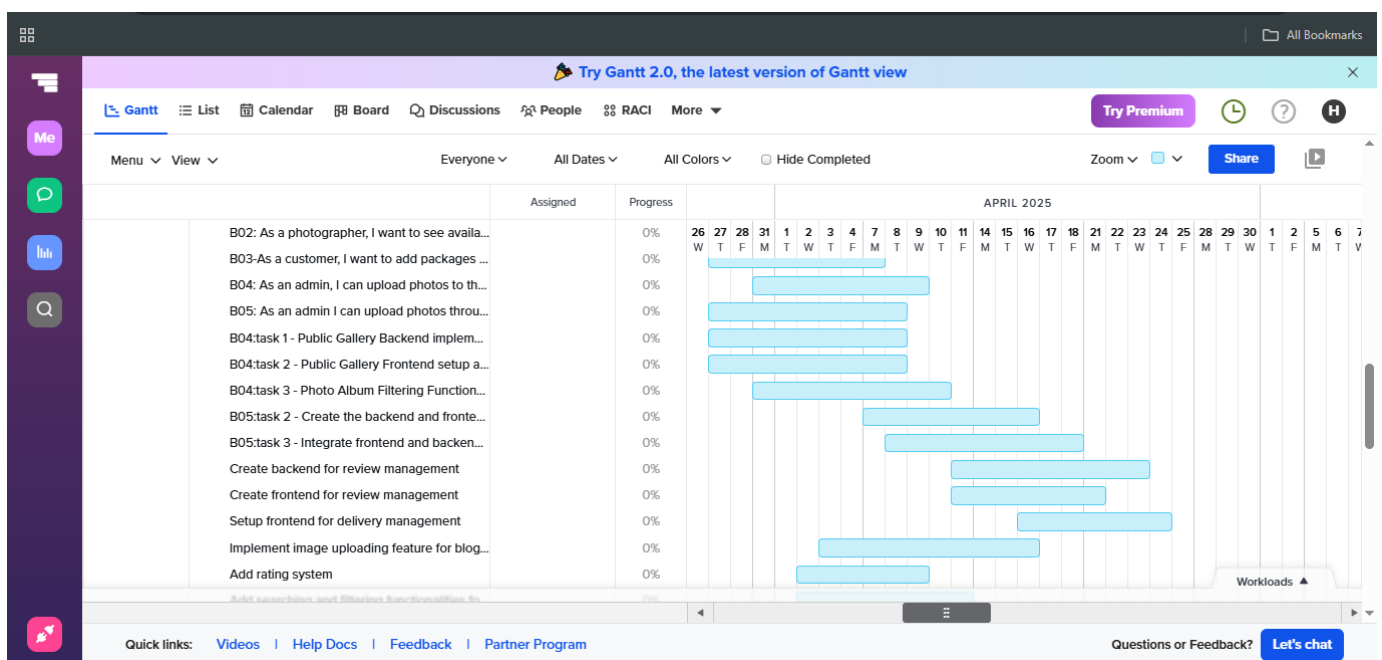
- P04 – Fully implemented inquiry management feature where users can submit their inquiries and get quick responses.
- G04 – Enhanced review system by adding a rating feature and search and filter functionalities.
- G06 – Improved blog viewing interface with search and filter functionalities.
- B05 - Fully functional Cloudinary Software Integration that allows photographers to upload, manage, and display images from the web application
- W07- User registration process where backend validation ensures data accuracy and integrity, and users receive a verification email to confirm their account, enhancing security and preventing unauthorized access.
- W08- An efficient reporting system that allows admins to filter data, export reports in various formats, and handle large datasets with optimized performance for smooth and fast data analysis.
- U05 - Rental Services Management Page Implemented and testing, Real-time Availability Updates in Rental Items, Search & Filter Functionality for Rental Items
- U06 - Notice page setup for effective communication, Notification Functionality Tested, Notification system ensures users receive important updates.

3. Kanban Board Setup



Link

<https://trello.com/invite/b/673add4a89b02518914244fd/ATTI17756bad46041584abaf2411fe9a34bb97CBDDAE/lavendra>



4. Sprint Plan

Member	Sprint 1	Sprint 2	Sprint 3
BOGODA ARACHCHI B.A.L.M.U	B01-Packages Management -frontend -backend -frontend and backend integration B03- Shopping cart -frontend -backend -frontend and backend integration	B02- Schedule Management -frontend, backend -Google Calendar integration B04- Public Photo Gallery Management -frontend, backend -photo filtering functionality -CRUD functionality	B05- Private gallery management using Cloudinary - frontend, backend -Cloudinary setup and integration with frontend UI -overall testing
PALLIYAGURUGE H.H.W	P01.1-Implement payment gateway integration (Stripe API) P01.2-frontend and backend. P01.3-Design payment page (UI/UX). P02.1-Design invoice template. P02.2-Implement backend logic to generate and send invoices.	P03.1-Implement payment monitoring page. P03.2- Create refund management functionality. P05.1-Implement read, update/cancellation feature.(CRUD) P05.2-Add confirmation before cancellation.	P06.1-Implement inquiry management Page. P06.2-Add sorting & prioritization of inquiries. P04.1-Implement inquiry submission form. P04.2-Store inquiries in the database. P04.3-Test inquiry submission functionality.
GALLAGE P.G.T.N.D	G02 – Delivery tracking -setup database -setup backend -setup frontend G01 – Map Integration -integrate Leaflet map -design map interface -implement status updating process -testing delivery management	G03 – Review Management -setup backend -setup frontend G05 – Blog Management -setup backend -setup frontend -image uploading feature	G04 – Review special features -add rating system -add searching functionality -add filtering functionality -testing review management G06 – Blog viewing -design blog displaying interface -add searching functionality -add filtering functionality -testing blog management
UDAGEDARA M.C.H	U01 - Rental Services Management -Design rental service page (UI) - Implement rental page frontend and backend.	U03 - Notice Management -Design notice page (UI) -Setup notice page frontend and backend	U05 – Rental Item Filtering - Implement filtering logic in API. -testing rental service management U06 - Notice Management Enhancements

	U02 -Setup an availability view and display calendar for select rent and return date each item for customer	U04 – Items’ Fetch real-time availability data and display it dynamically.	- Implement an email/SMS/in-app notification system. -overall testing
JAYAWICKRAMA W.T.L	<p>W01-User Management -Setup database -Setup backend -Setup frontend</p> <p>W02-Implement customer form Interface</p> <p>W02-Implement backend login for user registration.</p>	<p>W03.-Implement frontend UI for user registration</p> <p>W03- Validate user input on the front end</p> <p>W04-Admin Dashboard -Setup database -Setup backend -Setup frontend</p>	<p>W07-Validate User data on the backend</p> <p>W07-Send account verification email after registering</p> <p>W08.-Implement filtering option</p> <p>W08- Implement export functionality Task</p> <p>W08-Optimize performance for large data set in report.</p>