Sri Lanka Institute of Information Technology

IT2080 – IT Project

Year 2, Semester 2 -2025

Activity 03

Group 21

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Question 01: 1. Prepare a Product backlog for your project

M.G.S.D Wijesinghe -IT23564640 - Marketplace Management

Order ID	User Story ID	User Story	Tasks
1	101	As a student, I want to browse marketplace items by category, so that I can easily find what I need.	1. Design marketplace listing page 2. Implement category-based filtering (Books, Electronics, Furniture, etc.) 3. Display product details (name, price, condition, image) 4. Enable sorting options
2	102	As a student, I want to search for items using filters, so that I can refine my search results.	1. Implement search bar with keywords 2. Add filters for price, category, condition 3. Display dynamic filtered results
3	103	As a student, I want to add items to my cart, so that I can purchase them later.	1. Implement add-to-cart functionality 2. Display cart items with quantity and price 3. . Enable cart modifications 4. Store cart data for logged-in users
4	104	As a student, I want to securely checkout, so that I can complete my purchase safely.	1. Design checkout page 2. Implement secure payment integration 3. . Allow multiple payment methods 4. Validate billing and shipping details
5	105	As a student, I want to track my order status, so that I know when my purchase will arrive.	1. Implement order tracking system 2. Display order status (pending, shipped, delivered) 3. Enable order history view

6	106	As a marketplace manager, I want to add, update, and remove products, so that I can manage the catalog efficiently.	1. Design product management interface 2. Implement add/update/delete functionality 3. Store product details in database 4. Enable image uploads
7	107	As a marketplace manager, I want to manage inventory levels, so that I can restock products before they run out.	1. Update stock levels automatically after purchase 2. Set low-stock alerts 3. Provide inventory dashboard
8	108	As a student, I want to review and rate products, so that I can share my experience with others.	1. Design review submission form 2. Implement rating system (stars) 3. Store and display user reviews 4. Enable review moderation for admin
9	109	As a a marketplace manager, I want to create and manage discount codes, so that I can boost student sales.	1. Implement discount code generation 2. Enable promo code usage during checkout 3. Store and track discount code usage
10	110	As a student, I want to choose a delivery/shipping method, so that I can receive my order conveniently.	1. Display available delivery options 2. Show cost calculation 3. Integrate with delivery service providers
11	111	As a student, I want to receive real-time notifications about my order, so that I can track delivery updates	1. Send push/email notifications for order status 2. Display tracking details on order page 3. Store notification history
12	012	As a student, I want to create an account, so that I can save my details for faster checkout.	1. Implement registration/login. 2. Store details like shipping address & payment preferences 3. Enable profile management

13	112	As a student, I want to add items to my Wishlist, so that I can purchase them later.	1. Implement Wishlist functionality 2. Allow add/remove products from Wishlist 3. Save Wishlist for logged-in users
14	113	As a a marketplace manager, I want to view sales reports, so that I can analyze performance and trends.	1. Implement sales reporting dashboard 2. Aggregate sales data (daily, monthly) 3. Enable export to CSV/PDF
15	114	As a student, I want to post items for sale, so that I can sell my used textbooks or belongings.	1. Design item posting form 2. Allow image uploads 3. Store product info (title, description, price, category) 4. Validate form inputs
16	115	As a student, I want to edit or delete my listings, so that I can manage my items after posting.	1. Implement edit functionality 2. Allow item deletion 3. Update database accordingly

E.M.U.A.T.S Ekanayake -IT23535176 - Accommodation Management

Order ID	User Story ID	User Story	Tasks
1	201	As a student, I want to register and log into the system, so I can search for accommodation.	1. Design registration & login form. 2. Collect user data securely. 3. Validate login credentials. 4. Redirect to user dashboard.
2	202	As a student, I want to search for available boarding places near my university, so I can find suitable accommodation.	1. Create search bar and filters (location, price, type). 2. Display matching listings. 3. Connect listings with the database.
3	203	As a student, I want to view detailed boarding place information, so I can decide if it suits me.	1. Design listing detail page. 2. Retrieve data (photos, price, description). 3. Add map/location integration.
4	204	As a student, I want to contact the boarding owner, so I can ask questions or book the place.	1. Implement contact form/chat feature. 2. Send notification/email to boarding owner.
5	205	As a boarding owner, I want to register and log into the system, so I can add listings.	1. Design separate login/registration form for boarding owners. 2. Validate and store details in database.
6	206	As a boarding owner, I want to add my boarding places with full details, so students can view them.	1. Design listing submission form. 2. Upload images and descriptions. 3. Store details in listing database.

7	207	As a boarding owner, I want to manage my listings, so I can update or delete them when needed.	1. Show listings in dashboard. 2. Add edit and delete buttons. 3. Update/delete data in database.
8	208	As an accommodation admin, I want to view all listings, so I can monitor for accuracy or abuse.	1. Design admin dashboard for listing review. 2. Retrieve all submitted listings.
9	209	As an accommodation admin, I want to approve or reject listings, so only valid accommodations are shown.	1. Add approve/reject buttons in admin panel. 2. Notify boarding owner on status.
10	210	As an accommodation admin, I want to remove fake/inappropriate listings, so the platform remains safe.	1. Implement report and delete function. 2. Flag listings for admin review.

M.H.M.S.C.B MEDAGODA - IT23566248 – Job Portal Management System

Order ID	User Story ID	User Story	Tasks
1	**301**	As a student, I want to browse jobs by category, so that I can easily find available positions in the region.	1. Design job listing page 2. Implement category based filtering (IT, Marketing, Finance, etc.) 3. Display job details (title, company, location, salary, type) 4. Enable sorting options (Newest, Highest Salary)
2	**302**	As a student, I want to search for jobs using filters, so that I can refine my job search results.	1. Implement search bar with keywords 2. Add filters for salary range, job type (Full-time, Part-time, Internship) 3. Display dynamic filtered results
3	**303**	As a student, I want to apply for jobs, so that I can submit my application easily.	1. Implement "Apply Now" button 2. Upload and attach resume 3. Store application details in database 4. Send confirmation notification
4	**304**	As a student, I want to track my job applications, so that I know the status of my submissions.	1. Design application tracking page 2. Display status (Pending, Shortlisted, Rejected, Selected) 3. Enable withdrawal of applications
5	**305**	As a student, I want to create and manage my profile, so that I can showcase my skills and experience to employers.	1. Implement registration/login 2. Add fields for education, skills, resume upload 3. Enable profile editing

6	306	As a hiring manager, I want to create job postings, so that I can hire candidates.	1. Design job posting form 2. Validate job details (title, description, salary, location) 3. Store job postings in database 4. Allow image/logo upload
7	307	As a hiring manager, I want to view applications for my job postings, so that I can shortlist candidates.	1. Design applicant list view 2. Display candidate details (name, resume, skills) 3. Enable application status update
8	308	As a hiring manager, I want to edit or delete job postings, so that I can manage my listings.	1. Implement edit functionality 2. Allow deletion of job postings 3. Update database accordingly
9	309	As an admin, I want to review and approve job postings, so that only verified jobs are visible to students.	1. Implement admin dashboard for job review 2. Approve/reject job postings 3. Notify hiring manager about approval/rejection
10	310	As an admin, I want to verify hiring manager accounts during registration, so that only genuine recruiters post jobs.	1. Implement verification workflow 2. Allow document upload for verification 3. Approve/reject hiring manager registration
11	311	As an admin, I want to manage all users (students and hiring managers), so that I can maintain system integrity.	1. Display user list (students, managers) 2. Enable suspend/activate functionality 3. Provide search/filter options
12	312	As a student, I want to receive notifications about job status and updates, so that I stay informed.	1. Implement real-time or email notifications 2. Notify on application updates and new job postings 3. Store notification history

13	313	As a hiring manager, I want to receive notifications about new applicants, so that I can respond promptly.	1. Implement notifications for new applications 2. Enable email alerts 3. Store notification logs
14	314	As an admin, I want to generate reports on job postings and applications, so that I can analyze platform activity.	1. Implement reporting dashboard 2. Aggregate data (total jobs, applications per category) 3. Export reports to CSV/PDF

IT23623668 - S M T S B Samarakoon

Order ID	User Story ID	User Story	Tasks
1	401	As a student, I want to upload study materials according to subject, course or semester. So others can access them.	1. Design study materials uploading page 2. Implement category based filtering (subject, course, semester) 3. Display supported material types.(docx, pdf, jpg) 4. Ask keywords for material
2	402	As a student, I want to search and filter study materials by subject, course or semester.	1. Create search bar with keywords 2. Add filters for subject, course, semester 3. Display filtered study materials 4. Allow others to download study materials
3	403	As a student, I want to download study materials which uploaded by others easily.	1. Design study material viewing page 2. Add download option 3. Design library page to add searched materials to download all together.
4	404	As a student, I want to rate and review study materials to help others find quality materials.	1. Design recently downloaded page. 2. Design add rate and review button. 3. Save rate and review
5	405	As a student, I want to see trending and top-rated study materials for find valuable materials.	1. Design Trending page 2. Filter top rated Study materials
6	406	As a student, I want to edit or delete my uploaded study materials to share right theories and knowledge.	1. Design study material management interface 2. Implement edit delete functionality 3. Store and update content
7	407	As a student, I want to see how many times my notes were downloaded/rated to get clear idea about student interaction.	1. Display analytics for uploaded study materials 2. Arrange study materials as most interacted order
8	408	As an admin, I want to approve/reject notes to ensure quality.	1. Design upload pending interface for admin 2. Allow admin to approve or reject study material
9	409	As an admin, I want to manage users (remove fake/inactive accounts).	1. Design user management and complaint management pages 2. Allow admin to manage user access to study material subsystem. 3. Allow admin to handle complaints about users
10	410	As an admin, I want to generate reports about uploads, downloads, and user activity	1. Create report generating dashboard. 2. Design options to generate uploads, downloads and user activity reports. 3. Enable export report as pdf.

IT23650398 - H.M.S.M. Herath - Food Delivery Management

Order ID	User Story ID	User Story	Tasks
1	501	As a student, I want to browse Foods by category, so that I can see available options.	1. Design vendor listing page. 2. Display vendor details (name, rating, delivery hours). 3. Implement vendor availability filter. 4. Enable sorting (rating, distance).
2	502	As a student, I want to view a vendor's menu, so that I can decide what to order.	1. Design menu page. 2. Display food items with name, price, description, and image. 3. Implement category filters (drinks, meals). 4. Enable sorting by price/popularity
3	503	As a student, I want to add food items to my cart, so that I can place multiple orders at once.	1. Implement add-to-cart functionality. 2. Display cart with items, quantity, and price. 3. Enable cart modifications (add/remove/edit). 4. Store cart data for logged-in users.
4	504	As a student, I want to checkout and choose a payment method, so that I can complete my order.	1. Design checkout page. 2. Integrate payment options (Cash On Delivery/Online Payment). 3. Validate order and payment details. 4. Generate order confirmation.
5	505	As a student, I want to track my order status, so that I know when it will arrive.	1. Implement order tracking system 2. Display order status (pending, shipped, delivered) 3. Enable order history view

6	506	As a vendor, I want to register and manage my profile, so that students can find my shop.	1. Design vendor registration form. 2. Collect details (name, address, contact number, active hours). 3. Allow profile updates. 4. Store vendor data securely.
7	507	As a vendor, I want to create and update my menu, so that I can offer items to students.	1. Add functionality to add/edit/remove menu items. 2. Upload food images and descriptions. 3. Update prices and categories.
8	508	As a vendor, I want to receive order notifications, so that I can prepare food quickly.	1. Implement vendor order notification system. 2. Show new/pending/accepted orders. 3. Store notifications in dashboard.
9	509	As a vendor, I want to update the order status, so that students know the progress.	1. Add status update buttons (Accept/Preparing/Out for Delivery/Delivered). 2. Store status logs. 3. Display history for admin.
10	10	As an admin, I want to approve or reject vendor registrations, so that only trusted vendors join.	1. Design order monitoring dashboard. 2. Display all live orders with status. 3. Provide admin override controls.
11	511	As an admin, I want to monitor active orders, so that I can oversee the platform.	1. Send push/email notifications for order status 2. Display tracking details on order page 3. Store notification history
12	512	As a student, I want to rate and review vendors, so that I can share my experience.	1. Add rating system (1–5 stars). 2. Enable text review submission. 3. Display average rating on vendor profile. 4. Allow admin to moderate reviews.
13	513	As a student, I want to save my favourite vendors/foods, so that I can reorder quickly.	1. Implement "Add to Favourites" option. 2. Create favourites page. 3. Enable remove from favourites.

			4. Sync favourites across devices.
14	**514**	As a student, I want to receive real-time notifications about my order, so that I can track delivery updates.	1. Send push/email notifications. 2. Display tracking updates on order page. 3. Store notification history. 4. Enable toggle for notification preferences.
15	**515**	As an admin, I want to generate sales and performance reports, so that I can analyse usage.	1. Create report generation dashboard. 2. Generate sales/vendor performance reports. 3. Provide charts & graphs. 4. Enable export to PDF.

Question 02: Assign priority for each user story/or requirement

M.G.S.D Wijesinghe -IT23564640 - Marketplace Management

Order ID	User Story ID	User Story	Priority
1	101	As a student, I want to browse marketplace items by category, so that I can easily find what I need.	High
2	102	As a student, I want to search for items using filters, so that I can refine my search results.	High
3	103	As a student, I want to add items to my cart, so that I can purchase them later.	High
4	104	As a student, I want to securely checkout, so that I can complete my purchase safely.	High
5	105	As a student, I want to track my order status, so that I know when my purchase will arrive.	High
6	106	As a student, I want to post items for sale, so that I can sell my used textbooks or belongings.	High
7	107	As a student, I want to edit or delete my listings, so that I can manage my items after posting.	High
8	108	As a marketplace manager, I want to add, update, and remove products, so that I can manage the catalog efficiently.	High
9	109	As a marketplace manager, I want to manage inventory levels, so that I can restock products before they run out.	High
10	110	As a student, I want to review and rate products, so that I can share my experience with others.	Medium
11	111	As a marketplace manager, I want to create and manage discount codes, so that I can boost student sales.	Medium

12	112	As a student, I want to choose a delivery/shipping method, so that I can receive my order conveniently.	Medium
13	113	As a student, I want to receive real-time notifications about my order, so that I can track delivery updates.	Medium
14	114	As a student, I want to create an account, so that I can save my details for faster checkout.	High
15	115	As a student, I want to add items to my Wishlist, so that I can purchase them later.	Low
16	116	As a marketplace manager, I want to view sales reports, so that I can analyse performance and trends.	Medium

E.M.U.A.T.S Ekanayake -IT23535176 - Accommodation Management

Order ID	User Story ID	User Story	Priority
1	201	As a student, I want to register and log in, so that I can access accommodation features.	High
2	202	As a student, I want to search for available accommodations based on filters, so I can find suitable boarding places.	High
3	203	As a student, I want to view full accommodation details, so I can decide if it's right for me.	High
4	204	As a student, I want to book or request a place, so I can reserve it before someone else does.	High
5	205	As a student, I want to view my past and current bookings, so I can manage my accommodations.	Medium
6	206	As a boarding owner, I want to register and log in, so that I can list my properties.	High
7	207	As a boarding owner, I want to add boarding details (location, price, photos), so students can view them.	High
8	208	As a boarding owner, I want to update or delete my listings, so I can manage my properties easily.	Medium
9	209	As a boarding owner, I want to view booking requests, so I can accept or reject them.	High
10	210	As an accommodation admin, I want to verify listed properties, so that fake or unsafe places don't appear.	High
11	211	As an accommodation admin, I want to manage user reports and take action, so the system remains secure.	High
12	212	As an accommodation admin, I want to monitor platform usage and generate	Medium

13	213	reports, so I can track system performance.	
		As a student, I want to report a boarding place if it's fake or misleading, so others don't fall for scams.	High

IT23566248 - M.H.M.S.C.B MEDAGODA

Order ID	User Story ID	User Story	Priority
1	301	As a student, I want to browse jobs by category, so that I can easily find available positions in the region.	High
2	302	As a student, I want to search for jobs using filters, so that I can refine my job search results.	High
3	303	As a student, I want to apply for jobs, so that I can submit my application easily.	High
4	304	As a student, I want to track my job applications, so that I know the status of my submissions.	Medium
5	305	As a student, I want to create and manage my profile, so that I can showcase my skills and experience to employers.	High
6	306	As a hiring manager, I want to create job postings, so that I can hire candidates.	High
7	307	As a hiring manager, I want to view applications for my job postings, so that I can shortlist candidates.	Medium
8	308	As a hiring manager, I want to edit or delete job postings, so that I can manage my listings.	Medium
9	309	As an admin, I want to review and approve job postings, so that only verified jobs are visible to students.	High
10	310	As an admin, I want to verify hiring manager accounts during registration, so that only genuine recruiters post jobs.	High
11	311	As an admin, I want to manage all users (students and hiring managers),	Medium

		so that I can maintain system integrity.	
12	312	As a student, I want to receive notifications about job status and updates, so that I stay informed.	Medium
13	313	As a hiring manager, I want to receive notifications about new applicants, so that I can respond promptly.	Medium
14	314	As an admin, I want to generate reports on job postings and applications, so that I can analyze platform activity.	Medium

IT23623668 - S M T S B Samarakoon

Order ID	User Story ID	User Story	Priority
1	401	As a student, I want to upload study materials according to subject, course or semester. So others can access them.	High
2	402	As a student, I want to search and filter study materials by subject, course or semester.	High
3	403	As a student, I want to download study materials which uploaded by others easily.	High
4	404	As a student, I want to rate and review study materials to help others find quality materials.	Medium
5	405	As a student, I want to see trending and top-rated study materials for find valuable materials.	Medium
6	406	As a student, I want to edit or delete my uploaded study materials to share right theories and knowledge.	Medium
7	407	As a student, I want to see how many times my notes were downloaded/rated to get clear idea about student interaction.	Low
8	408	As an admin, I want to approve/reject notes to ensure quality.	Medium
9	409	As an admin, I want to manage users (remove fake/inactive accounts).	Low
10	410	As an admin, I want to generate reports about uploads, downloads, and user activity	Low

IT23650398 - H.M.S.M. Herath

Order ID	User Story ID	User Story	Priority
1	501	As a student, I want to browse Foods by category, so that I can see available options.	High
2	502	As a student, I want to view a vendor's menu, so that I can decide what to order.	High
3	503	As a student, I want to add food items to my cart, so that I can place multiple orders at once.	High
4	504	As a student, I want to checkout and choose a payment method, so that I can complete my order.	High
5	505	As a student, I want to track my order status, so that I know when it will arrive.	High
6	506	As a vendor, I want to register and manage my profile, so that students can find my shop.	High
7	507	As a vendor, I want to create and update my menu, so that I can offer items to students.	High
8	508	As a vendor, I want to receive order notifications, so that I can prepare food quickly.	High
9	509	As a vendor, I want to update the order status, so that students know the progress.	High
10	510	As an admin, I want to approve or reject vendor registrations, so that only trusted vendors join.	Medium
11	511	As an admin, I want to monitor active orders, so that I can oversee the platform.	Medium

12	512	As a student, I want to rate and review vendors, so that I can share my experience.	Medium
13	513	As a student, I want to save my favourite vendors/foods, so that I can reorder quickly.	Low
14	514	As a student, I want to receive real-time notifications about my order, so that I can track delivery updates.	Medium
15	515	As an admin, I want to generate sales and performance reports, so that I can analyse usage.	Low

Question 03: Add relative estimates for the user stories using agile estimation method

Story Points:

- Simple UI tasks (low complexity): 1-3 points
- Medium tasks (moderate complexity) :5-8 points
- Large tasks (high complexity):10+ points

M.G.S.D Wijesinghe -IT23564640 - Marketplace Management

User Story ID	User Story	Priority	Story Points
101	As a student, I want to browse items by category, so that I can easily find what I need.	High	3
102	As a student, I want to search for items using filters, so that I can refine my search results.	High	5
103	As a student, I want to add items to my shopping cart, so that I can purchase them later.	High	5
104	As a student, I want to proceed to checkout, so that I can complete my purchase securely.	High	8
105	As a student, I want to track my order status, so that I know when my purchase will arrive.	High	5
106	As a marketplace manager, I want to add, update, and remove products, so that I can manage the product catalog efficiently.	High	8
107	As a marketplace manager, I want to manage inventory levels, so that I can restock products before they run out.	High	8
108	As a student, I want to review and rate products, so that I can share my experiences with other buyers.	Medium	5

109	As a student, I want to subscribe to auto replenishment services, so that I never run out of essential items.	Medium	8
110	As a marketplace manager, I want to create and manage discount codes, so that I can offer promotions to boost sales.	Medium	5
111	As a student, I want to choose a shipping method, so that I can receive my order at my convenience.	Medium	5
112	As a student, I want to receive real-time shipping notifications, so that I can track my order's delivery status.	Medium	8
113	As a student, I want to create an account, so that I can save my details for faster checkout.	High	5
114	As a student, I want to add items to my Wishlist, so that I can purchase them later.	Low	3
115	As a marketplace manager, I want to view sales reports, so that I can analyze product performance and revenue trends.	Medium	8
116	As a student, I want to post items for sale, so that I can sell my used textbooks or belongings.	High	5
117	As a student, I want to edit or delete my listings, so that I can manage my items after posting.	High	3

E.M.U.A.T.S Ekanayake - IT23535176 - Accommodation Management

User Story ID	User Story	Story Points
201	As a student, I want to search for available accommodations so that I can find a suitable place to stay.	5
202	As a student, I want to filter accommodations by price, location, and type so that I can find what fits me best.	8
203	As a student, I want to contact the boarding owner so that I can ask more details before booking.	5
204	As a student, I want to book an accommodation so that I can reserve it before someone else does.	8
205	As a boarding owner, I want to add a new boarding listing so that students can see and book it.	5
206	As a boarding owner, I want to update or delete my listings so that I can manage current accommodations.	5
207	As an accommodation admin, I want to approve or reject new listings so that only verified accommodations appear on the platform.	8
208	As an accommodation admin, I want to view complaints and take actions so that we can maintain service quality.	8
209	As a student, I want to see my booking history so that I can manage where I've stayed before.	3
210	As a boarding owner, I want to view booking requests so that I can prepare or respond accordingly.	3

M.H.M.S.C.B.Medagoda - IT23566248 – Job Portal Management System

User Story ID	User Story	Priority	Story Points
301	As a student, I want to browse jobs by category, so that I can easily find available positions in the region.	High	5
302	As a student, I want to search for jobs using filters, so that I can refine my job search results.	High	5
303	As a student, I want to apply for jobs, so that I can submit my application easily.	High	8
304	As a student, I want to track my job applications, so that I know the status of my submissions.	Medium	5
305	As a student, I want to create and manage my profile, so that I can showcase my skills and experience to employers.	High	8
306	As a hiring manager, I want to create job postings, so that I can hire candidates.	High	8
307	As a hiring manager, I want to view applications for my job postings, so that I can shortlist candidates.	Medium	5
308	As a hiring manager, I want to edit or delete job postings, so that I can manage my listings.	Medium	3
309	As an admin, I want to review and approve job postings, so that only verified jobs are visible to students.	High	5
310	As an admin, I want to verify hiring manager accounts during registration, so that only genuine recruiters post jobs.	High	8
311	As an admin, I want to manage all users (students and hiring	Medium	5

	managers), so that I can maintain system integrity.		
312	As a student, I want to receive notifications about job status and updates, so that I stay informed.	Medium	8
313	As a hiring manager, I want to receive notifications about new applicants, so that I can respond promptly.	Medium	5
314	As an admin, I want to generate reports on job postings and applications, so that I can analyse platform activity.	Medium	8

IT23623668 - S M T S B Samarakoon – Study Material Management

User Story ID	User Story	Priority	Story Points
401	As a student, I want to upload study materials according to subject, course or semester. So others can access them.	High	5
402	As a student, I want to search and filter study materials by subject, course or semester.	High	5
403	As a student, I want to download study materials which uploaded by others easily.	High	3
404	As a student, I want to rate and review study materials to help others find quality materials.	Medium	3
405	As a student, I want to see trending and top-rated study materials for find valuable materials.	Medium	3
406	As a student, I want to edit or delete my uploaded study materials to share right theories and knowledge.	Medium	8
407	As a student, I want to see how many times my notes were downloaded/rated to get clear idea about student interaction.	Low	3
408	As an admin, I want to approve/reject notes to ensure quality.	Medium	5
409	As an admin, I want to manage users (remove fake/inactive accounts).	Low	5
410	As an admin, I want to generate reports about uploads, downloads, and user activity	Low	5

H.M.S.M. Herath -IT23650398 – Food Delivery Management

Order ID	User Story ID	User Story	Story Points
1	501	As a student, I want to browse Foods by category, so that I can see available options.	5
2	02	As a student, I want to view a vendor's menu, so that I can decide what to order.	8
3	503	As a student, I want to add food items to my cart, so that I can place multiple orders at once	5
4	504	As a student, I want to checkout and choose a payment method, so that I can complete my order.	13
5	505	As a student, I want to track my order status, so that I know when it will arrive.	8
6	506	As a vendor, I want to register and manage my profile, so that students can find my shop.	5
7	507	As a vendor, I want to create and update my menu, so that I can offer items to students.	8
8	508	As a vendor, I want to receive order notifications, so that I can prepare food quickly.	5
9	509	As a vendor, I want to update the order status, so that students know the progress.	5
10	510	As an admin, I want to approve or reject vendor registrations, so that only trusted vendors join.	3
11	511	As an admin, I want to monitor active orders, so that I can oversee the platform.	8
12	12	As a student, I want to rate and review vendors, so that I can share my experience.	5
13	513	As a student, I want to save my favourite vendors/foods, so that I can reorder quickly.	3
14	514	As a student, I want to receive real-time notifications about my order, so that I can track delivery updates.	5
15	515	As an admin, I want to generate sales and performance reports, so that I can analyses usage.	8

Question 04: Based on the priority and estimates given, separate them into 3 sprints (duration of each sprint is two weeks). Each sprint should have a product as an outcome. The final sprint (3rd) should have the fully developed product

M.G.S.D Wijesinghe -IT23564640 - Marketplace Management

Sprint 1 Outcome: Basic marketplace running – students can register, browse, search, and add to cart.

User Story ID	User Story	Assigned Member	Tasks
101	As a student, I want to browse items by category, so I can easily find what I need.	IT23564640	1. Design product listing page 2. Implement category filtering 3. Display product details (name, price, image) 4. Enable sorting
102	As a student, I want to search items using filters, so I can refine my search results.	IT23564640	1. Implement search bar 2. Add filters (price, condition, category) 3. Show filtered results dynamically
103	As a student, I want to add items to cart, so I can purchase later.	IT23564640	1. Implement add-to-cart 2. Show cart items with price/quantity 3. Allow cart modifications 4. Save cart data
104	As a student, I want to create an account, so I can save my details for faster checkout.	IT23564640	1. Implement user registration/login 2. Store profile data 3. Enable profile management

Sprint 2 –

Outcome: Students can checkout securely, and store managers can manage product catalogs and inventory.

User Story ID	User Story	Assigned Member	Tasks
105	As a student, I want to check out, so I can complete my purchase securely.	IT23564640	1. Design checkout page 2. Secure payment gateway 3. Multiple payment methods 4. Validate billing/shipping details
106	As a marketplace manager, I want to add/update/remove items, so I can manage catalog.	IT23564640	1. Design product management page 2. Add/update/delete item function 3. Store product details in DB 4. Enable image upload
107	As a marketplace manager, I want to manage inventory, so I can restock items before they run out.	IT23564640	1. Auto stock update after purchase 2. Low-stock alerts
108	As a student, I want to choose a shipping method, so I can receive items at my convenience.	IT23564640	1. Show shipping options 2. Cost calculation 3. Integrate shipping service

Sprint 3 –

Outcome: Fully functional marketplace with reviews, notifications, wishlist, reports, and discounts.

User Story ID	User Story	Assigned Member	Tasks
109	As a student, I want to track my order status, so I know when it will arrive.	IT23564640	1. Implement order tracking 2. Show status updates 3. Order history view
110	As a student, I want to review & rate products, so I can share my experience.	IT23564640	1. Review form 2. Rating system 3. Store & display reviews 4. Admin moderation
111	As a student, I want auto-replenishment, so I never run out of essentials.	IT23564640	1. Subscription purchase system 2. Manage subscriptions 3. Auto-order generation
112	As marketplace manager, I want to create discount codes, so I can promote sales.	IT23564640	1. Discount code creation 2. Apply at checkout 3. Track usage
113	As a student, I want real-time shipping notifications, so I can track delivery.	IT23564640	1. Order tracking integration 2. SMS/Email notifications 3. Show status in app
114	As a student, I want to add items to Wishlist, so I can buy them later.	IT23564640	1. Wishlist function 2. Add/remove items 3. Save wishlist
115	As a marketplace manager, I want to view sales reports, so I can analyze performance.	IT23564640	1. Sales dashboard 2. Aggregate sales data 3. Export reports

E.M.U.A.T.S Ekanayake – IT23535176 – Accommodation Management

Sprint 1: Registration, login, listing accommodations, admin approvals

User Story ID	User Story	Assigned Team Member	Tasks
201	As a boarding owner, I want to register and log in, so that I can list my accommodations.	IT23535176	1. Design registration and login forms. 2. Collect and validate owner credentials. 3. Encrypt sensitive data. 4. Store in database and redirect to dashboard.
202	As a student, I want to register and log in, so that I can search and book accommodations.	IT23535176	1. Design registration and login UI for students. 2. Validate login and redirect to student dashboard. 3. Store and encrypt login data.
203	As a boarding owner, I want to add new accommodations, so that students can view and book them.	IT23535176	1. Create a form to add accommodation details (location, rent, type, etc.). 2. Upload images. 3. Save data to the database. 4. Show confirmation.
204	As a system admin, I want to approve or reject new accommodation listings, so that the system maintains quality.	IT23535176	1. Build admin view for pending approvals. 2. Add approve/reject buttons. 3. Update listing status in database.

Sprint 2: Search, view, booking, owner booking views

User Story ID	User Story	Assigned Team Member	Tasks
205	As a student, I want to search and filter accommodations, so that I can find suitable places.	IT23535176	1. Build search and filter UI (by location, price, gender, etc.). 2. Connect search with database queries. 3. Display results on frontend.
206	As a student, I want to view full details of a selected accommodation.	IT23535176	1. Design accommodation detail page. 2. Display data with images and map. 3. Show owner contact if approved.
207	As a student, I want to book a boarding place, so that I can reserve my accommodation.	IT23535176	1. Add "Book Now" button. 2. Capture booking details (user ID, place ID, date). 3. Store booking in database. 4. Display booking confirmation.
208	As a boarding owner, I want to view bookings for my accommodations, so I can prepare accordingly.	IT23535176	1. Create owner dashboard to display booking records. 2. Show student info and booked dates. 3. Add filters for past and upcoming bookings.

Sprint 3: Edit/delete listings, booking history, admin controls, logout

User Story ID	User Story	Assigned Team Member	Tasks
209	As a boarding owner, I want to edit or delete my accommodations, so I can manage them properly.	IT23535176	1. Build edit and delete features. 2. Connect buttons to database updates/deletes. 3. Add confirmation modal.
210	As a student, I want to view the status and history of my bookings.	IT23535176	1. Create a "My Bookings" page. 2. Display current and past bookings. 3. Add option to cancel future bookings.
211	As a system admin, I want to manage or delete inappropriate listings or users.	IT23535176	1. Create admin control panel. 2. Add delete/block functionality for listings or users. 3. Add confirmation dialogs and logging.
212	As a user (owner/student), I want to logout and secure my account.	IT23535176	1. Add logout functionality. 2. Clear session and redirect. 3. Show logout success message.

M.H.M.S.C.B MEDAGODA - IT23566248 – Job Portal Management System

Sprint 1: Basic browsing, search, posting, and account setup

User Story ID	User Story	Assigned Member	Tasks
301	As a student, I want to browse jobs by category, so that I can easily find available positions in the region.	IT23566248	1. Design job listing page 2. Implement category based filtering (IT, Marketing, Finance, etc.) 3. Display job details (title, company, location, salary, type) 4. Enable sorting options (Newest, Highest Salary)
302	As a student, I want to search for jobs using filters, so that I can refine my job search results.	IT23566248	1. Implement search bar with keywords 2. Add filters for salary range, job type (Full-time, Part-time, Internship) 3. Display dynamic filtered results
305	As a student, I want to create and manage my profile, so that I can showcase my skills and experience to employers.	IT23566248	1. Implement registration/login 2. Add fields for education, skills, resume upload 3. Enable profile editing
306	As a hiring manager, I want to create job postings, so that I can hire candidates.	IT23566248	1. Design job posting form 2. Validate job details (title, description, salary, location) 3. Store job postings in database 4. Allow image/logo upload
309	As an admin, I want to review and approve job postings, so that only verified jobs are visible to students.	IT23566248	1. Implement admin dashboard for job review 2. Approve/reject job postings 3. Notify hiring manager about approval/rejection

Sprint 2: Application process, verification, and management features

User Story	User Story	Assigned member	Tasks
303	As a student, I want to apply for jobs, so that I can submit my application easily.	IT23566248	1. Implement "Apply Now" button 2. Upload and attach resume 3. Store application details in database 4. Send confirmation notification
304	As a student, I want to track my job applications, so that I know the status of my submissions.	IT23566248	1. Design application tracking page 2. Display status (Pending, Shortlisted, Rejected, Selected) 3. Enable withdrawal of applications
307	As a hiring manager, I want to view applications for my job postings, so that I can shortlist candidates.	IT23566248	1. Design applicant list view 2. Display candidate details (name, resume, skills) 3. Enable application status update
308	As a hiring manager, I want to edit or delete job postings, so that I can manage my listings.	IT23566248	1. Implement edit functionality 2. Allow deletion of job postings 3. Update database accordingly
310	As an admin, I want to verify hiring manager accounts during registration, so that only genuine	IT23566248	1. Implement verification workflow 2. Allow document upload for verification 3. Approve/reject hiring manager registration

User Story ID	User Story	Assigned member	Tasks
	recruiters post jobs.		

Sprint 3: Enhancements (notifications, reports, full functionality)

User Story ID	User Story	Assigned member	Tasks
311	As an admin, I want to manage all users (students and hiring managers), so that I can maintain system integrity.	IT23566248	1. Display user list (students, managers) 2. Enable suspend/activate functionality 3. Provide search/filter options
312	As a student, I want to receive notifications about job status and updates, so that I stay informed.	IT23566248	1. Implement real-time or email notifications 2. Notify on application updates and new job postings 3. Store notification history
313	As a hiring manager, I want to receive notifications about new applicants, so that I can respond promptly.	IT23566248	1. Implement notifications for new applications 2. Enable email alerts 3. Store notification logs
314	As an admin, I want to generate reports on job postings and applications, so that I can analyze platform activity.	IT23566248	1. Implement reporting dashboard 2. Aggregate data (total jobs, applications per category) 3. Export reports to CSV/PDF

IT23623668 - S M T S B Samarakoon

Sprint 1 → Study material Upload and Download

User Story ID	User Story	Tasks	Assigned Member
401	As a student, I want to upload study materials according to subject, course or semester. So others can access them.	1. Design study materials uploading page 2. Implement category based filtering (subject, course, semester) 3. Display supported material types.(docx, pdf, jpg) 4. Ask keywords for material	IT23623668
402	As a student, I want to search and filter study materials by subject, course or semester.	1. Create search bar with keywords 2. Add filters for subject, course, semester 3. Display filtered study materials 4. Allow others to download study materials	IT23623668

Sprint 2 → Enhanced Searched and User Features

User Story ID	User Story	Tasks	Assigned Member
403	As a student, I want to download study materials which uploaded by others easily.	4. Design study material viewing page 5. Add download option 5. Design library page to add searched materials to download all together.	IT23623668
404	As a student, I want to rate and review study materials to help others find quality materials.	4. Design recently downloaded page. 5. Design add rate and review button. 5. Save rate and review	IT23623668
405	As a student, I want to see trending and top-rated study materials for find valuable materials.	3. Design Trending page 6. Filter top rated Study materials	IT23623668

User Story ID	User Story	Tasks	Assigned Member
406	As a student, I want to edit or delete my uploaded study materials to share right theories and knowledge.	4. Design study material management interface 5. Implement edit delete functionality 4. Store and update content	IT23623668
407	As a student, I want to see how many times my notes were downloaded/rated to get clear idea about student interaction.	3. Display analytics for uploaded study materials 6. Arrange study materials as most interacted order	IT23623668

Sprint 3 → Admin tasks and analytics

User Story ID	User Story	Tasks	Assigned Member
408	As an admin, I want to approve/reject notes to ensure quality.	3. Design upload pending interface for admin 6. Allow admin to approve or reject study material	IT23623668
409	As an admin, I want to manage users (remove fake/inactive accounts).	4. Design user management and complaint management pages 5. Allow admin to manage user access to study material subsystem. 6. Allow admin to handle complaints about users	IT23623668
410	As an admin, I want to generate reports about uploads, downloads, and user activity	4. Create report generating dashboard. 5. Design options to generate uploads, downloads and user activity reports. 6. Enable export report as pdf.	IT23623668

IT23650398 - H.M.S.M. Herath

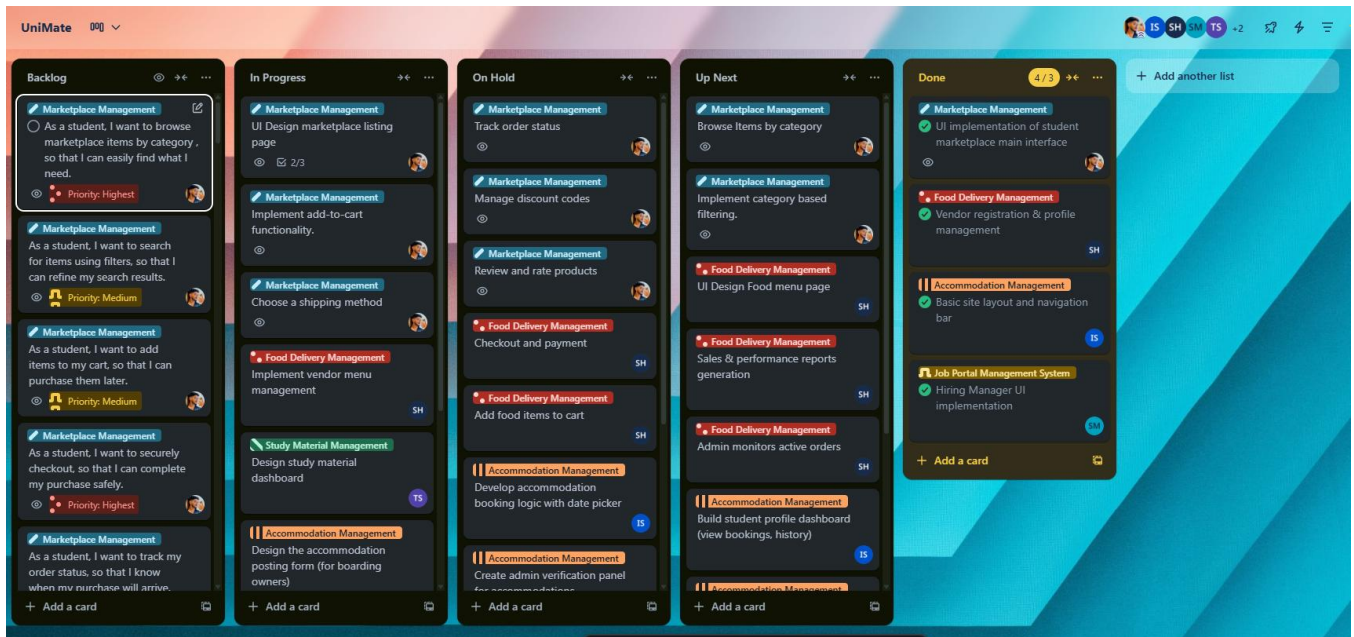| Sprint	User Story ID	User Story	Assigned Team Member	Tasks
Sprint 1	501	As a student, I want to browse Foods by category, so that I can see available options.	IT23650398	1. Design vendor listing page. 2. Display vendor details (name, rating, delivery hours). 3. Implement vendor availability filter. 4. Enable sorting (rating, distance).
Sprint 1	502	As a student, I want to view a vendor's menu, so that I can decide what to order.	IT23650398	1. Design menu page. 2. Display food items with name, price, description, and image. 3. Implement category filters (drinks, meals). 4. Enable sorting by price/popularity
Sprint 1	503	As a student, I want to add food items to my cart, so that I can place multiple orders at once.	IT23650398	1. Implement add-to-cart functionality. 2. Display cart with items, quantity, and price. 3. Enable cart modifications (add/remove/edit) 4. Store cart data for logged-in users.
Sprint 1	504	As a student, I want to checkout and choose a payment method, so that I can complete my order.	IT23650398	1. Design checkout page. 2. Integrate payment options (Cash On Delivery/Online Payment).

				3. Validate order and payment details. 4. Generate order confirmation.
Sprint 1	505	As a vendor, I want to register and manage my profile, so that students can find my shop.	IT23650398	1. Implement order tracking system 2. Display order status (pending, shipped, delivered) 3. Enable order history view
Sprint 2	506	As a student, I want to track my order status, so that I know when it will arrive.	IT23650398	1. Design vendor registration form. 2. Collect details (name, address, contact number, active hours). 3. Allow profile updates. 4. Store vendor data securely.
Sprint 2	507	As a vendor, I want to create and update my menu, so that I can offer items to students.	IT23650398	1. Add functionality to add/edit/remove menu items. 2. Upload food images and descriptions. 3. Update prices and categories.
Sprint 2	508	As a vendor, I want to receive order notifications, so that I can prepare food quickly	IT23650398	1. Implement vendor order notification system. 2. Show new/pending/accepted orders. 3. Store notifications in dashboard.
Sprint 2	509	As a vendor, I want to update the order status, so that	IT23650398	1. Add status update buttons (Accept/Preparing/Out for

		students know the progress.		Delivery/Delivered). 2. Store status logs. 3. Display history for admin.
Sprint 2	510	As an admin, I want to approve or reject vendor registrations, so that only trusted vendors join.	IT23650398	1. Design order monitoring dashboard. 2. Display all live orders with status. 3. Provide admin override controls.
Sprint 3	511	As an admin, I want to monitor active orders, so that I can oversee the platform.	IT23650398	1. Send push/email notifications for order status 2. Display tracking details on order page 3. Store notification history
Sprint 3	512	As a student, I want to rate and review vendors, so that I can share my experience.	IT23650398	1. Add rating system (1–5 stars). 2. Enable text review submission. 3. Display average rating on vendor profile. 4. Allow admin to moderate reviews.
Sprint 3	513	As a student, I want to save my favourite vendors/foods, so that I can reorder quickly.	IT23650398	1. Implement "Add to Favourites" option. 2. Create favourites page. 3. Enable remove from favourites. 4. Sync favourites across devices.
Sprint 3	514	As a student, I want to receive real-time notifications about my order, so that I	IT23650398	1. Send push/email notifications.

		can track delivery updates.		2. Display tracking updates on order page. 3. Store notification history. 4. Enable toggle for notification preferences.
Sprint 3	515	As an admin, I want to generate sales and performance reports, so that I can analyse usage.	IT23650398	1. Create report generation dashboard. 2. Generate sales/vendor performance reports. 3. Provide charts & graphs. 4. Enable export to PDF.

Question 05: Kanban Board

We are using Trello as a project management tool to organize and track the development of our **UniMate** System. The Kanban board in Trello helps us visualize project progress by categorizing tasks into different stages.

https://trello.com/invite/b/68a4993e44e8ea24be6cf030/ATTI22964b0ba99e8c33e21a6426501abec509B64999/unimate

Question 06: Sprint Plan

Sprint	Assigned Team Member	Task
Sprint 1	IT23564640 (Marketplace Management)	Develop item listing system with upload, categories, and description.
Sprint 1	IT23535176 (Accommodation Management)	Implement accommodation listing system for landlords to post boarding details.
Sprint 1	IT23566248 (Job Portal Management)	Builds core features like job browsing, searching, posting, and admin approval for an MVP.
Sprint 1	IT23650398 (Food Delivery Management)	Implement menu listing and search with vendor registration.
Sprint 1	IT23623668 (Study Material Management)	Build upload and download system for notes, past papers, and materials.
Sprint 2	IT23564640 (Marketplace Management)	Implement buying/selling features with cart and communication option.
Sprint 2	IT23535176 (Accommodation Management)	Implement student booking system with landlord approval/rejection and booking history.
Sprint 2	IT23566248 (Job Portal Management System)	Adds job application, tracking, and recruiter verification for a complete application process.
Sprint 2	IT23650398(Food Delivery Management)	Implement order placement with delivery status tracking.
Sprint 2	IT23623668 (Study Material Management)	Implement filtering by subject, semester, and university.
Sprint 3	IT23564640 (Marketplace Management)	Finalize order tracking and marketplace moderation panel.

Sprint 3	IT23535176 (Accommodation Management)	Implement notification system and finalize testing for accommodation module features
Sprint 3	IT23566248 (Job Portal Management System)	Delivers notifications, reporting, and user management for a fully functional platform.
Sprint 3	IT23650398(Food Delivery Management)	Finalize payment integration and rating system.
Sprint 3	IT23623668 (Study Material Management)	Add rating system and access tracking for study resources.