			Subtask	Team member	Status	Estima	ated Hours							REAL I	HOURS SK daily)							REAL HOURS	REAL HOURS	
Sprint 4 backlog	User Stories + acceptance criteria	Main task (issue type)			Status	per TASK	TOTAL (all tasks)	01/04	02/04	03/04	04/04	05/04	06/04	07/04	08/04	09/04	10/04	11/04	12/04	13/04	14/04	total per task	tasks)	
planning Expectations: 1) machine learning model development and tests	1) As a user, I want to see accurate predictions of bike availability based on historical patterns so that I can plan my journeys in advance. Acceptance Criteria: - NIL model predicts bike availability with at test 80% accuracy available for all stations for up to 24 hours in advance.	Machine learning model development and tests	Machine learning model development - Performance comparison of different model and model selection Machine learning model		done	1	124															0	93	
			Machine learning model development - Dataset search and acquisition of new datasets Model Development: Building the Model (Introducing and		done	1																0		
	Users can select a future date and time to view predicted availability Prediction confidence level is displayed Model accounts for weather conditions, time of day, and day of week Prediction results are displayed within 2		Processing Explanatory Factors) Model Testing and	Kexun	done	2																0		
	seconds of request - Interface clearly distinguishes between current and predicted data - System handles prediction failures gracefully with appropriate messaging		Deployment																					
			Review of model and improvement	Tan	done	4										1	1		1			3		
																						0		
																						0		
																						0		
	As a developer, I want to create a modular, maintainable codebase so that our application is easy to extend and maintain in the future.	flask setting	Create the components folder to put reusable component.	Tan	done	4					1	2	1									4		
	Acceptance Criteria: Cade is organized into logical components with clear interfaces Global styles are separated from component-specific styles Reusable components have documentation and usage examples CSS follows a consistent methodology JavaScript follows modern best practices Code douglication is minimized throughout the		add header.html add footer.html add subpage_comp.html																					
	 CSS follows a consistent methodology JavaScript follows modern best practices Code duplication is minimized throughout the codebase All code passes linting with agreed standards 																							
	 As a user, I want to receive a pickup code after completing my payment, so that I can unlock a bike. 	Frontend dev	Modify popup message after users paid money optimise payment form, add	Tan	done	3							1.5						1.5			3		
	Acceptance Criteria After successful payment, a unique pickup code is generated for the user - The pickup code is displayed on the confirmation page or popup - The code fromtal a standardized (e.g., 6-digit and a standardized (e.g., 6-digit - A success message clearly indicates the code is for bike pickup	ligit	optimise payment form, add validation when users input invalid data																					
	4) As a marketing manager, I want to collect user information through a signup form so that I can communicate with potential customers and grow our user base. Acceptance Criteria - Users are able to submit their information (e.		Account page: Implement HTML, CSS and JS.	Tan	done	4											2.5					2.5		
	- Users are able to submit their information (e. g. name and email) via a form on the website. - Submitted user data is stored securely in a database or external system (e.g. Google Sheets or a backend database) - Marketing team members can access or export the collected data in a structured format - A confirmation message is shown to users after submission - Validation is in place to ensure data																							
	- Validation is in place to ensure using completeness (e.g., email format, required fields) 5) As a user, I want to easily identify bixe stations on the map and see predicted availability so that I can plan my journeys more effectively.		Map add station number for each station	Tan	done	8						1	2	2				2				7		
	Acceptance Criteria - After successful payment, a unique pickup code is generated for the user - The pickup code is displayed on the confirmation page or popup - The code format is standardized (e.g., 6-digit alphanumeric or QR code) - A success message clearly indicates the code is for bits cickup.		add visualisation - when station pressed it shows amount of Bikes total and bikes free prediction - add prediction function for user to show the bike availability in the selected date.	1																				
	code is for bike pickup 6) As a backend developer, I want to store user account information securely so that the application can manage user login and registration.		Account data stores	Tan	done	3										3						3		
	Acceptance Critical Acceptance Critical Acceptance Symbol API is available to receive name, email, and password - Submitted account data is a wildated (e.g., email format, required feetil) structured and pensistent storage (e.g., Google Sheets or database) - Duplicale accounts with the same email are properties of the same of the foreign of the confirming success or failure - Confirming success or failure																							
	7) As a developer, I want to ensure the application is thoroughly tested so that users experience minimal bugs and issues. Acceptance Criteria: - Unit tests cover at least 80% of non-UI code integration tests verify at API endpoints - UI tests check critical user flows (SIZe SIZE) with the control of th	Overall testing for project	Tests of app, Initial and Final, such as: -unit testing -functional testing -integration testing -machine learning testing -manual testing (users - Sister and Sofia)		done	3										1	1	1				3		

						Estimat	Estimated Hours REAL HOURS (per TASK daily)														REAL HOURS	REAL HOURS		
Sprint 4 backlog	User Stories + acceptance criteria	Main task (issue type)	Subtask	Team member	Status	per TASK	TOTAL (all	01/04	02/04	03/04	04/04	05/04	06/04	07/04	08/04	09/04	10/04	11/04	12/04	13/04	14/04	total per task	TOTAL (all tasks)	
	Performance meets acceptable standards Accessibility compliance is verified Cross-browser compatibility is confirmed		-manual testing (users - Rose, Shelly, brother) - fixing most of the issues afte testing, deciding which doesn' make sense o fix but worth to note		done	3	tasks)	0 1104	0204	0.004	04104	03.04	0004	01104	00.04	03.04	1	1	1	1004	1404	3		
				Kexun	done	3																0		
	ii) As a developer, I want to deploy our application has production environment so that users can access it ordine. Acceptance Cities (250 and 250 a		Run our websile on EC2	Tan	done	2											2					2		
	was in the death of deathing in represent user by As a developer; I want to impriment user the product of the death of t		Implemented key improvemented has of the improvements based on testing feedback and verified that all bugs, logic studes, and verified that all bugs, logic studes, and inaccurate messages were fully addressed.	Tan	done	8												1	4	1		6		
	10) As a stakeholder. I want comprehensive		Initial writing of report	Herman	Processing	4							1	1	1	1						4		
	documentation of the project so that we have a record of what was built and how it works. Acceptance Criteria: Project report covers all required sections Documentation includes architecture		Overall writing of report	Herman	Processing	40											8	8	8	8	8	40 0		
	diagrams - User stories and acceptance criteria are documented		Filling individual templates (part done, screenhots, story) for report		done	2					1	1										2		
	Technical implementation details are explained Testing process and results are documented Future improvement recommendations are	Report writing	Filling individual templates (part done, screenhots, story) for report Filling individual templates		done	10												2	3					
	included - Repository has a detailed README		(part done , screenhots, story) for report Review of all diagrams and		Processing																	0		
			supervision																					
			Sequence diagram Class diagram	Kexun Herman	Processing Processing	2																0		
			Class diagram Architecture diagram	Herman	Processing	2																0		
			Writing "ML" section of the report	Kexun																				
			Review of "Main Features" section and help in editing this part of report	Tan	Processing																			
		Other	Readme file	Tan	done	2														1.5		1.5		
			Github repository organisation		Processing																	0		
			Video presentation	Tan, Herman, Kexun	Processing	2														1	1	2		