

Project name	Project Manager	Start Date	End Date	Overall Progress	Project Deliverable	Scope Statement
ERP System	Celia Cai	Jan 13, 2021	May 20, 2021	60%	View the following document for the project deliverables: https://docs.google.com/document/d/1Tnzo3maPdEC8O5BleQIRla99uJimfhGTA9ye2JnSqTY/edit	View the following document for the scope and minimum requirement of the project: https://docs.google.com/document/d/1a7AbEKoKOJlpJtZ2wHKtrLEMITvwd_1VaWwLZQVCw4/edit

Sprint #	Min Requirement	User Story	Task Name	Start Date	End Date	Duration (Days)	Assignee(s)	Status	Comments		Status Legend		
1	[8] The system should allow only registered users to access the information, possible with different accesses for different roles.	[8.1] As an IT Personal, I want to be able to create accounts for all the different types of users, so that each department has the correct type of access to the ERP system.	Create and edit different accounts as an IT user	26/01/2021	02/02/2021	7	Piravien Suntharalingam, Pasha Pishdad	Complete			Complete		
		[8.2] As an ERP user, I want to login securely, so that I can access the appropriate interface without putting my credentials in jeopardy.	Login securely (password encryption)	20/01/2021	25/01/2021	5	Piravien Suntharalingam	Complete			In Progress		
2	[1] The system must allow defining products: sizes (18, 21, 26, etc), colors, finishes (matt, chrome, etc), grades (aluminium, steel, carbon, etc) etc.	[1.1] As the product manager, I want to be able to set the specifications of bikes in terms of size, color, finish and grade, so that the customer has a specific scope of bike options to choose from.	Create UI for bike creation	16/02/2021	18/02/2021	2	Pasha Pishdad	Complete	Also includes subuser stories 1.1.1 to 1.1.3				
			Create a bike database to store bike specifications (size, color, finishes, grade, etc)	17/02/2021	20/02/2021	3	Julien Xu	Complete					
			Add the production manager user and routing to display the related page after logging in	20/02/2021	22/02/2021	2	Pasha Pishdad	Complete					
	[2] The system must allow creating, editing, and tracking material lists, which define what other parts are needed to assemble/create a product. A part itself may have its own material list. For example, a bike Seat is itself composed of a Rawhide Ornament, Springs, Frame, etc.	[2.1] As the inventory person, I want to edit and track the list of necessary bicycle materials, so that I know what materials I need to create a bicycle or a part of a bicycle.	Create UI	13/02/2021	15/02/2021	2	Muhammad Shah Newaz	Complete					
		[2.2] As the product manager, I want to create the list of necessary bicycle materials, so that I know what materials I need to create a bicycle or a part of a bicycle.	Create UI	13/02/2021	15/02/2021	2	Armando Mancino	Complete					
			Create BikeParts database	17/02/2021	20/02/2021	3	Julien Xu	Complete					
			Create Materials database	17/02/2021	20/02/2021	3	Julien Xu	Complete					
			Research on bike materials and parts	12/02/2021	13/02/2021	1	Daniel Gauvin	Complete	You also need to add the researched mats/parts into the DB. Create a Seeder for that so that we can all auto-add the mats/parts to our own instance of the DB				
	[3] The system must allow tracking inventory, which contains the numbers of things in the plants available and necessary to create parts and products. The inventory depends on a location, current orders, backlogs, forecast of production, etc.	[3.1] As an inventory guy, I want to add the available quantity of each listed part, so that the manufacturing worker can know the quantity available of certain parts.	Add functionality to the "Add Bicycle" button. When the form to add a bicycle is sent, a new bicycle with its specifications (including its quantity) should be displayed	20/02/2021	23/02/2021	3	Michael Lee	Complete	When parts are low, the corresponding cell will become red, else, it will be green				
		[3.2] As a bicycle manufacturing worker, I want to know what parts/materials are needed and availability to make a bicycle, so that I can assemble a bicycle without any confusion.	Create UI	15/02/2021	17/02/2021	2	Daniel Gauvin	Complete					
			Do the backend for UI to interact with the BikeParts database	20/02/2021	23/02/2021	3	Michael Lee	Complete	The "Add Bicycle" button now has functionalities				
			Do the backend to update that the status of a bicycle is completed and update the quantity of parts left	20/02/2021	23/02/2021	3	Celia Cai	Complete	Update the quantity of parts left will be for Sprint 3				

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			Do the backend to display material and parts availability (No need to show quantity, simply available or not)	20/02/2021	23/02/2021	3	Kelvin Chow Wan Chuen	Complete					
	[9] The system must generate logs and audit trails for the sake of debugging and accountability.	[9.1] As an IT personal, I want to see logs of the system, so that I can monitor activity in the system.	Create the logs	12/02/2021	17/02/2021	5	Piravien Suntharalingam	In Progress	Complete, but we need to add the log command everytime there's a new page				
3	[3] The system must allow tracking inventory, which contains the numbers of things in the plants available and necessary to create parts and products. The inventory depends on a location, current orders, backlogs, forecast of production, etc.	[3.3] As an inventory person, I want to know the backlog of materials order, so that I can have a clear idea of how many parts will be available in future and what are the pending tasks.	Add a modal (popup) in the inventory page where a backlog table will be in	26/02/2021	28/02/2021	2	Piravien Suntharalingam	Complete					
			In the modal, create 1 backlog tables (materials backlog).	26/02/2021	28/02/2021	2	Piravien Suntharalingam	Complete					
			Create a database table for orders	28/02/2021	03/03/2021	3	Piravien Suntharalingam	Complete					
			Create seeds for the material and parts list	14/03/2021	16/03/2021	2	Piravien Suntharalingam	Complete					
			Research on bike materials and parts	26/02/2021	26/02/2021	1	Armando Mancino	Complete					
			Fetch all backlog parts order and display it on the backlog table	26/02/2021	28/02/2021	2	Piravien Suntharalingam	Complete					
		[3.4] As a bicycle manufacturing worker, I want to know the deadline for backlog materials order, so that I can efficiently organize bicycle productions.	Add a modal (popup) in the Job page where a backlog table will be in	26/02/2021	26/03/2021	1	Muhammad Shah Newaz	Complete					
			In the modal, create 1 backlog tables (materials backlog).	26/03/2021	27/03/2021	2	Muhammad Shah Newaz	Complete					
			Fetch the all backlog parts order and display it on the backlog table	26/02/2021	26/03/2021	1	Muhammad Shah Newaz	Complete					
		[3.5] As an inventory person, I want to know when the next bicycle materials will be available if there are none in stock, so that I know when the purchase of materials can be made from the vendor.	Add a "estimated arrival date" column in the backlog table	01/03/2021	01/03/2021	1	Piravien Suntharalingam	Complete					
			Fetch the estimated arrival date values and display it on the column	01/03/2021	01/03/2021	1	Piravien Suntharalingam	Complete					
		[3.6] As an inventory person I want to know the amount of items available in inventory so that I can have a minimum and maximum ordering level.	Add color to a cell to indicate when a certain part or material is low on quantity (Red = Low quantity, Green = Good quantity)	02/03/2021	03/03/2021	2	Michael Lee	Complete					
		[3.7] As a shipping clerk, I want to be able mark backlog orders as received, so that the inventory person knows when the backlog orders have arrived.	Create a UI (page) for the shipping clerk	09/03/2021	10/03/2021	2	Michael Lee	Complete					
			Create a backlog order table in the shipping clerk page (add a button that indicates when a order has arrived)	09/03/2021	10/03/2021	2	Michael Lee	Complete					
			Fetch the data to populate the backlog order table	15/03/2021	15/03/2021	1	Michael Lee	Complete					

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			Do the backend so that when the button that indicates when a order has arrived is clicked, it updates in the inventory page's material or parts tables and the backlog table	15/03/2021	15/03/2021	1	Michael Lee	Complete					
			Add default values to populate orders table	15/03/2021	15/03/2021	1	Michael Lee	Complete					
	[4] The system must allow defining, ordering, and tracking raw material and final products. Possibly, it should allow optimising production (use of machines, time of use, etc.	[4.1] As the inventory person, I want to be able to define and track raw material and final products, so that I can make a list of items I need to build bicycles and keep track of finished bicycles.	Add a completed bicycle, parts and materials table	03/03/2021	05/03/2021	2	Muhammad Shah Newaz	Complete					
			Interact with database to pull values from appropriate tables	05/03/2021	06/03/2021	2	Michael Lee	Complete					
		[4.2] As the inventory person, I want to be able to preorder bicycle materials if there is no stock available, so that I can receive the parts as soon as possible.	Create UI for ordering parts and materials	06/03/2021	08/03/2021	3	Daniel Gauvin	Complete					
			Do the backend to handle the form	08/03/2021	10/03/2021	3	Daniel Gauvin	Complete					
		[4.3] As an inventory guy, I want to add the amount of completed bicycles, so that customers can know how many bicycles are available.	Add button that will update completed bicycles table (eg. "Add bicycle" button with form)	08/03/2021	08/03/2021	1	Muhammad Shah Newaz	Complete					
	[6] The system can connect to production machinery via different communication modes, including but not limited to Web services, COM ports, and CSV/XML format files.	[6.1] As a manufacturing worker, I want to be able to see the status of all the manufacturing machines from the ERP Interface, so that I don't have to check each machine individually.	Create a manufacturing machine table in a "Machine" page (making sure to have a status column)	04/03/2021	07/03/2021	3	Armando Mancino, Pasha Pishdad, Kelvin Chow Wan Chuen	Complete					
			Create a manufacturing machine database	04/03/2021	07/03/2021	3	Armando Mancino, Pasha Pishdad, Kelvin Chow Wan Chuen	Complete					
			Interact with the database so that when the status is updated, it is reflected in a manufacturing machine table	04/03/2021	07/03/2021	3	Armando Mancino, Pasha Pishdad, Kelvin Chow Wan Chuen	Complete					
			Discuss with the team how the machines will work; As in how the machines will fit into the production flow (e.g. do we have different machines for each "stage" of the bike building process? or do each machine do the whole building process? When a bike is completed by the machine, what happens after that; does the manufacturer person move it to the completed pile? Or does the machien do it?										
			These are just example questions but basically, need to figure out where the machines fit into this	04/03/2021	07/03/2021		Armando Mancino, Pasha Pishdad, Kelvin Chow Wan Chuen	Complete					
			Add a manufacturer worker user	04/03/2021	07/03/2021		Kelvin Chow Wan Chuen	Complete					

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	[10] The system can generate documents, like reports, in different formats, including MS Excel spreadsheets and Adobe PDF. It can also link to some Cloud storage service, e.g., Google Drive, to push/pull documents there.	[10.1] As an accountant, I want to see monthly and yearly sales reports, so that I can plan monthly sales and yearly sales reports.	Create an accountant view/UI	10/03/2021	14/03/2021	4	Celia Cai	Complete					
			Create a sales table	10/03/2021	14/03/2021	4	Celia Cai	Complete					
			Create a sales database	10/03/2021	14/03/2021	4	Celia Cai	Complete					
			Make the interaction between the table and database	10/03/2021	14/03/2021	4	Celia Cai	Complete	Monthly and yearly sales to be completed in Sprint 4				
		[10.2] As a accountant, I want to export monthly and yearly reports in PDF or MS Excel format, so that reports can be easily analyzed and printed.	Create the function that would export the table as a PDF or excel	10/03/2021	14/03/2021	4	Julien Xu	Complete	CSV complete, waiting on PDF				
	[13] Sensitive data must be encrypted (credential details, personal information), so in case of a data leak, the leaked information can not be traced back to any identity or user.	[13.1] As a user, I want the system to automatically log me out after a time of inactivity so that no one who doesn't have the authorization will be able to access the information that I have access to if I forget to log out.	Create the function that would automatically log out a user after a certain time	01/03/2021	01/03/2021	1	Piravien Suntharalingam	Complete					
	N/A	N/A	Add restriction to "Jobs" and "Assembly" page (will need to create a manufacturer worker). (At the moment, the IT person can see those pages, but they should not be able to view them)	17/03/2021	17/03/2021	1	Michael Lee	Complete					
			Add comments to our code	26/02/2021	17/03/2021	19	Everyone	Complete					
			Look into static analysis tool for code quality				Pasha Pishdad, Piravien Suntharalingam	Complete					
			Look into code coverage	12/03/2021	15/03/2021	3	Julien Xu	Complete					
			Make the relationship database tables and additional database tables (eg. Material_Order)	13/03/2021	16/03/2021	3	Daniel Gauvin	Complete					
			Add additional attributes to the existing table (eg. add "price" in the table containing bicycles, add "cost" to materials	13/03/2021	15/03/2021	2	Piravien Suntharalingam	Complete					
4	[5] The system must allow following all and any cost: Accounts Payable, Accounts Receivable, and Cost/Charge Number.	[5.1] As an accountant, I want to be able to track payments to others and payments received from others, so that I can produce a financial report.	Grab data from sales and orders tables to compile total numbers.	20/03/2021	22/03/2021	2	Julien Xu						
			Display total sales and purchases in a graphical manner.	22/03/2021	22/03/2021	1	Celia Cai						
			Export graphs to pdf (or jpeg).	27/03/2021	27/03/2021	1	Julien Xu						
			Choose time period in which to display the numbers.	31/03/2021	02/04/2021	2	Celia Cai						
	[7] The system should track quality data. It needs to support manually triggered rules and-or system generated rules.	[7.1] As an accountant, I want to receive confirmation email for completed order payment, so that I can be sure my payment was received by the recipient (bicycle manufacturing company).	Implement email system for accounting [refer to min req 17].	01/04/2021	01/04/2021	1	Piravien Suntharalingam, Kelvin Chow Wan Chuen						
			Send automatic email to all accountants when an order is placed or a bicycle purchase is completed.	03/04/2021	04/04/2021	1	Kelvin Chow Wan Chuen						
			Email should appear in accountants' inboxes.	04/04/2021	04/04/2021	1	Kelvin Chow Wan Chuen						

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	[11] The system should follow "good" UI principles, like help, tooltips, etc.	[11.1] As an ERP user, I want to interact with help buttons, so that I can navigate the system with ease	Add help buttons to User Management page.	25/03/2021	27/03/2021	2	Muhammad Shah Newaz																																
			Add help buttons to orders page.	26/03/2021	28/03/2021	2	Muhammad Shah Newaz																																
			Add help buttons to Sales page	27/03/2021	29/03/2021	2	Armando Mancino																																
			Add help buttons to Accounting page.	28/03/2021	30/03/2021	2	Armando Mancino																																
	[17] The system sends e-mails to certain roles according to certain rules depending on events occurring within the system, e. g., production stopped.	[17.1] As a product manager, I want to receive email for the bicycle production disruption, so that I can know the different hindrances of the production team and take necessary actions.	Implement email system for the product manager.	31/03/2021	02/04/2021		Piravien Suntharalingam																																
			An email is automatically sent when the status of a machine is found to be offline.	01/04/2021	03/04/2021		Daniel Gauvin																																
			Email should appear in product manager's inbox.	02/04/2021	04/04/2021		Piravien Suntharalingam																																
		[17.2] As a product manager, I would like to receive a notification or notice when certain sales surpass a large amount so that I am aware of a big order.	Implement email system for the product manager.	03/04/2021	05/04/2021		Piravien Suntharalingam																																
			Email should appear in product manager's inbox.	04/04/2021	06/04/2021		Daniel Gauvin																																
		[17.3] As a sales manager, I would like to receive a notification or notice when parts and/or materials quantity are low, so that I know when to order more.	Implement email system for sales manager.	01/04/2021	06/04/2021		Piravien Suntharalingam																																
			An email is automatically sent when the parts and/or materials are found to be low.	01/04/2021	06/04/2021		Daniel Gauvin																																
			Email should appear in sale's inbox.	01/04/2021	06/04/2021		Daniel Gauvin																																
	N/A	N/A	Give each bike a name so that we can list jobs with the bicycle name instead of bicycle type	27/03/2021	01/04/2021		Pasha Pishdad			<div>Jobs</div> <table><thead><tr><th>JobID</th><th>Bicycle Type</th><th>Quantity</th><th>Date Created</th><th>Status</th><th>Operations</th></tr></thead><tbody><tr><td>1</td><td>Mountain Bike</td><td>14</td><td>2021-03-17 17:07:20</td><td>Queued</td><td><button>Toggle Status</button><button>Delete</button></td></tr><tr><td>2</td><td>Road Bike</td><td>19</td><td>2021-03-17 17:07:20</td><td>Queued</td><td><button>Toggle Status</button><button>Delete</button></td></tr><tr><td>3</td><td>Track Bike</td><td>16</td><td>2021-03-17 17:07:20</td><td>Queued</td><td><button>Toggle Status</button><button>Delete</button></td></tr></tbody></table>	JobID	Bicycle Type	Quantity	Date Created	Status	Operations	1	Mountain Bike	14	2021-03-17 17:07:20	Queued	<button>Toggle Status</button> <button>Delete</button>	2	Road Bike	19	2021-03-17 17:07:20	Queued	<button>Toggle Status</button> <button>Delete</button>	3	Track Bike	16	2021-03-17 17:07:20	Queued	<button>Toggle Status</button> <button>Delete</button>					
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			Add functionality to assign jobs to users	27/03/2021	01/04/2021		Michael Lee			<div>JOBS</div> <div>10 of 10 jobs need to be completed</div> <div>Jobs</div> <div><div>ADD</div><table><thead><tr><th>Assignee</th><th>Bicycle Type</th><th>Quantity</th><th>Date Created</th><th>Status</th><th>Operations</th></tr></thead><tbody><tr><td>NCN1</td><td>Mountain Bike</td><td>14</td><td>2021-03-17 17:07:20</td><td>Queued</td><td><button>Toggle Status</button><button>Delete</button></td></tr><tr><td>NCN1</td><td>Road Bike</td><td>19</td><td>2021-03-17 17:07:20</td><td>Queued</td><td><button>Toggle Status</button><button>Delete</button></td></tr><tr><td>NCN1</td><td>Track Bike</td><td>16</td><td>2021-03-17 17:07:20</td><td>Queued</td><td><button>Toggle Status</button><button>Delete</button></td></tr></tbody></table><div>Add new job</div></div>	Assignee	Bicycle Type	Quantity	Date Created	Status	Operations	NCN1	Mountain Bike	14	2021-03-17 17:07:20	Queued	<button>Toggle Status</button> <button>Delete</button>	NCN1	Road Bike	19	2021-03-17 17:07:20	Queued	<button>Toggle Status</button> <button>Delete</button>	NCN1	Track Bike	16	2021-03-17 17:07:20	Queued	<button>Toggle Status</button> <button>Delete</button>					
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2	Given my role as inventory person, when I enter a quantity of a listed part and click submit, then the submission is properly handled.	Pass	3.1		Pass
	Given my role as a bicycle manufacturing worker, when I view a bicycle item, then I see all the bicycle parts.	Pass	3.2		Fail
	Given my role as a manufacturing worker, when I click on the "list of all available materials" button, I see an up to date list of materials.	Pass	1.1		
	Given my role as an inventory person, when I click "add bicycles" on the inventory UI, my feedback gets successfully submitted and updated.	Pass	2.1		
	Given my role as an IT person, when I do any action on the system, then that action is logged on the screen.	Pass	9.1		
	Given my role as an IT person, when an action is logged, then it is logged in a table format.	Pass	9.1		
3	Given my role as a an inventory person, when I click on the "backlog" on the materials page, I will see a list of materials that are ordered.	Pass	3.3		
	Given my role as an inventory person, on the backlog, when i see the backlog, I also want to see the deadline for the order	Pass	3.5		
	Given that I am an ERP user, when I check the inventory, there should be maximum and a minimum ordering level so that the inventory isnt over or under stocked.	Pass	3.6		
	Given my role in the production team, when I click on "raw materials", list of materials should appear.	Pass	4.1		
	Given my role as admin, in the inventory tab, next to every item, there should be an order button to order the materials needed	Pass	4.2		
	Given my role as the inventory person, when I add a bicycle, it should appear in the coresponding database table and view.	Pass	4.3		
	Given my role as a manufacturing worker, I can check the status of ALL machines, not just 1 in one page.	Pass	6.1		
	Given my role as an accountant, when I click on Financial Reports, I can view all reports of different time frames.	Pass	10.1		
	Given my role as an accountant, I can export financial reports in the form of PDF and MS Excel Format.	Pass	10.2		

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	Given that I am an ERP user, when I am inactive for 20 minutes, the system logs me out automatically and redirects me to the login page.	Pass	13.1		
4	Given my role as an accountant, I can track outgoing and receiving payments in order to produce a financial report.		5.1		
	Given my role as an accountant, when an order payment is completed, I receive a notification as confirmation.		7.1		
	Given my role as an accountant, when a purchase payment is completed, I receive a notification as confirmation.		7.2		
	Given my role as an ERP user, when I need help, I can find tips within the page.		11.1		
	Given my role as an ERP user, when I need help, I can interact with help buttons.		11.2		
	Given my role as an ERP user, if there is a disruption in bike production, I will be notified by email.		17.1		
	Given my role as a product manager, if there is a large order that went through, I will be notified by email.		17.2		
	Given my role as a sales manager, if materials/parts get low, I will be notified by email.		17.3		
5					