

Module Name	High Level Requirement	Points
Cloud Module	<ol style="list-style-type: none"> <li>1. The cloud storage can store images captured by the lockers.</li> <li>2. The cloud database should keep records of the pickup / deposit codes of all users.</li> <li>3. The cloud database should keep the statuses of lockers (whether they are occupied)</li> </ol>	2.5 5 5
Front End Module	<ol style="list-style-type: none"> <li>1. Locker GUI can display instructions, interact with users and keep a state machine without undefined behavior.</li> <li>2. The website frontend enables users to create, read, update and delete their profile.</li> </ol>	5 5
Security Module	The camera can capture images whenever there is movement detected by the passive infrared sensor.	2.5
Power Module	<ol style="list-style-type: none"> <li>1. Raspberry Pi 4 can run steadily for at least 15 minutes with all of its peripherals on with a 12V to 5V converter.</li> <li>2. ESP32 can run without any problem using the 12 V to 3.3 V converter.</li> </ol>	2.5 2.5
Control Module	<ol style="list-style-type: none"> <li>1. RPI 4 control module can match the user profile given pickup / deposit code.</li> <li>2. RPI 4 can open an unoccupied locker for a new delivery.</li> <li>3. RPI 4 can open lockers that hold the items belonging to the user.</li> </ol>	5 5 5
Locker Module	Locker modules can receive the signal addressed to them and unlock the lockers.	5
	<b>Total</b>	50