



KMITL

User Manual

Bangkok, Thailand

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2023 - 2024

Introduction

Welcome to the comprehensive user manual for our E-borrowing web application, a robust tool designed to enhance the management and distribution of school supplies within your school. This document serves as a detailed guide to each aspect of the application, developed during our internship to streamline the borrowing process and ensure efficient utilization of resources.

In the following pages, we will explore every functionality of our platform, from user registration to the management of borrowing requests. We aim to provide you with clear instructions and insights into how each feature operates and how it can be best utilized to facilitate both students and staff in their daily educational activities. Whether you are a teacher, student, or administrator, this manual will assist you in navigating and maximizing the potential of our application effectively.

Our goal with this manual is not only to educate users on the technical features but also to highlight the practical benefits that our application brings to your educational environment. By the end of this document, you should feel confident in using our application to its full potential, enhancing the educational experience and operational efficiency at your institution.

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1. General

1.1. Register

The first part of the application, making an account. This is where the users can create an account. Standard when a user creates an account, he has the role "Student". We did this because most of the people that are going to use this system will be students. Only people with a valid telephone number or email (ending with @kmitl.ac) can create an account. When you want your role changed, or you want to use an email other than the one ending with @kmitl.ac you must contact an administrator.

KMITL Home Sign in Create account

KMITL
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี

Firstname * Lastname *
Student code * Telephone *
Email *
Password * Confirm *
Register
or
Already have an account? [Log in](#)

1.2. Login

After you create an account, you can now log in to your account. You just need to fill in all the fields. When you forget your password, you can click the "Forgot password" button, this will send a link to reset your password to your email.

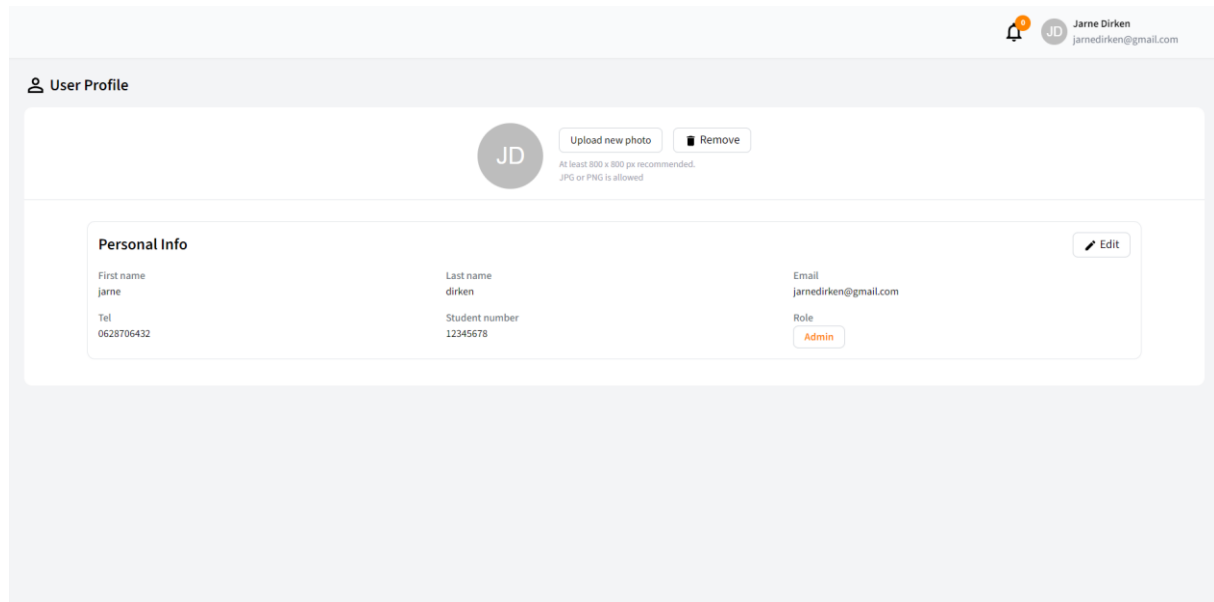
KMITL Home Sign in Create account

KMITL
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี

Email *
Password *
Forgot password?
Sign in
or
Are you new? [Create an Account](#)

1.3. Profile

At the user profile user can modify their profile. They can upload a profile picture if they want to or change their account summary. It is not possible for the user to modify their e-mail or their role. They can only view these. An administrator can change that for them.



The screenshot shows a user profile page for Jarne Dirken. At the top right, there is a notification bell icon, a profile picture placeholder with 'JD', and the user's name 'Jarne Dirken' and email 'jarnedirken@gmail.com'. Below this, the page is titled 'User Profile'. The main content area features a large circular profile picture placeholder with 'JD' and buttons for 'Upload new photo' and 'Remove'. Below this is a 'Personal Info' section with an 'Edit' button. The 'Personal Info' section contains the following details:

Personal Info		
First name	Last name	Email
jarne	dirken	jarnedirken@gmail.com
Tel	Student number	Role
0628706432	12345678	Admin

2. User

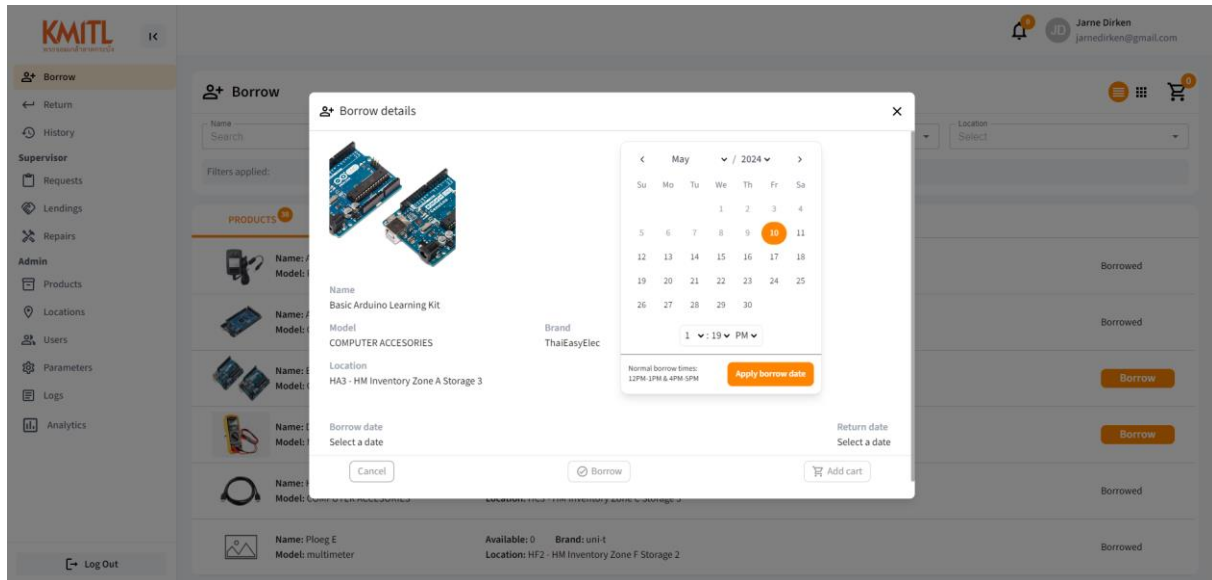
2.1. Borrow

After you have logged in or created an account this is the page that you will get automatically redirected to. The page where students can borrow items. We chose to make this page as well as almost every page taggable between a list and a card view for better user experience. At small screens you will be forced into card view that way our application is 100% responsive for mobile devices.

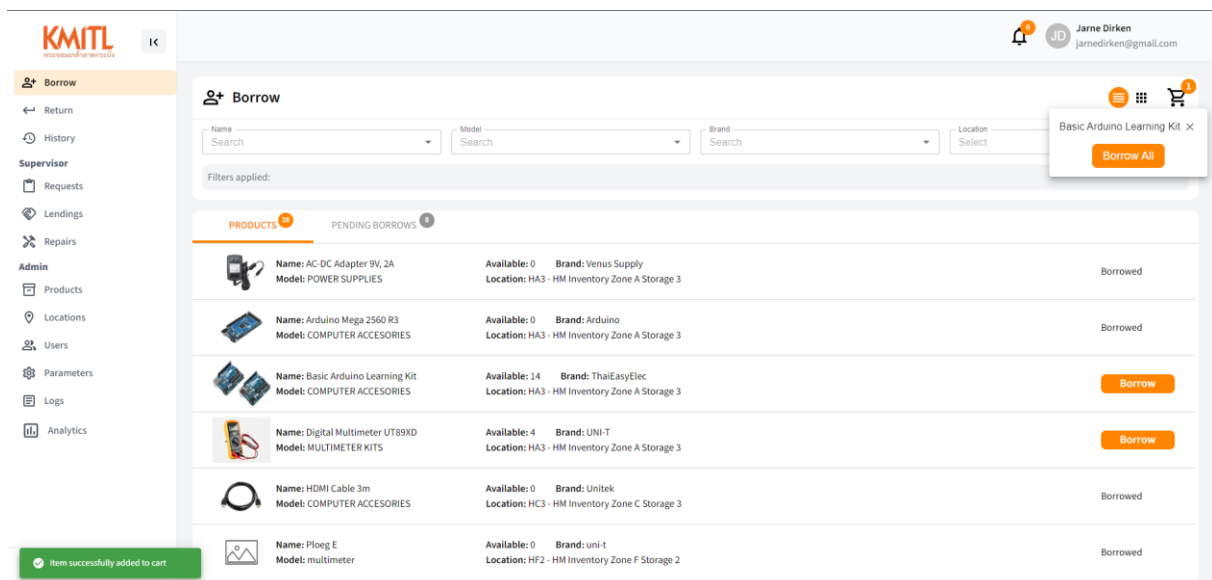
Name	Model	Available	Brand	Location	Borrowed
AC-DC Adapter 9V, 2A	POWER SUPPLIES	0	Venus Supply	HA3 - HM Inventory Zone A Storage 3	Borrowed
Arduino Mega 2560 R3	COMPUTER ACCESSORIES	0	Arduino	HA3 - HM Inventory Zone A Storage 3	Borrowed
Basic Arduino Learning Kit	COMPUTER ACCESSORIES	14	ThaiEasyElec	HA3 - HM Inventory Zone A Storage 3	Borrow
Digital Multimeter UT89XD	MULTIMETER KITS	4	UNI-T	HA3 - HM Inventory Zone A Storage 3	Borrow
HDMI Cable 3m	COMPUTER ACCESSORIES	0	Unitex	HC3 - HM Inventory Zone C Storage 3	Borrowed
Ploeg E	multimeter	0	uni-t	HF2 - HM Inventory Zone F Storage 2	Borrowed

Name	Model	Brand	Location	Available	Borrowed
AC-DC Adapter 9V, 2A	POWER SUPPLIES	Venus Supply	HA3 - HM Inventory Zone A Storage 3	0	Borrowed
Arduino Mega 2560 R3	COMPUTER ACCESSORIES	Arduino	HA3 - HM Inventory Zone A Storage 3	0	Borrowed
Basic Arduino Learning Kit	COMPUTER ACCESSORIES	ThaiEasyElec	HA3 - HM Inventory Zone A Storage 3	14	Borrow
Digital Multimeter UT89XD	MULTIMETER KITS	UNI-T	HA3 - HM Inventory Zone A Storage 3	4	Borrow
HDMI Cable 3m	COMPUTER ACCESSORIES	Unitex	HC3 - HM Inventory Zone C Storage 3	0	Borrowed
Ploeg E	multimeter	uni-t	HF2 - HM Inventory Zone F Storage 2	0	Borrowed

The items are grouped together so you can see how many items there are left. You can also choose to use the filter at the top to get a more accurate search. When you find the item you want to borrow you simply click "Borrow", a popup opens. Inside the popup you must select a borrow and return date. This will allow you to borrow the item directly or add the item into your cart, that way you can borrow multiple items at once.








After making a request or in this screenshot, adding an item into your cart you will be greeted with a popup message in the bottom left corner. This allows for great user feedback. When doing this a notification will be sent to the supervisors and admins.



After you have borrowed an item, you can go to the tab "Pending Borrowings". Here you will see all the borrowings that are pending, accepted, or rejected.

When clicking on cancel you will cancel your request. This will also give you a popup for a good user experience.



When clicking on the message tab you will see a popup with the message on why the item got rejected.

Borrow			
<div><div>NameSearch</div><div>ModelSearch</div><div>BrandSearch</div><div>LocationSelect</div></div> <div>Filters applied:</div>			
<div>PRODUCTS 12</div> <div>PENDING BORROWINGS 5</div>			
	Name: Ploeg E Model: multimeter	Brand: uni-t Location: HF2 - HM Inventory Zone F Storage 2	<div><div>Pending</div><div>May 6, 2024 - May 8, 2024</div><div>Cancel</div></div>
	Name: Basic Arduino Learning Kit Model: COMPUTER ACCESORIES	Brand: ThaiEasyElec Location: HA3 - HM Inventory Zone A Storage 3	<div><div>Pending</div><div>May 7, 2024 - May 9, 2024</div><div>Cancel</div></div>
	Name: Digital Multimeter UT89XD Model: MULTIMETER KITS	Brand: UNI-T Location: HA3 - HM Inventory Zone A Storage 3	<div><div>Pending</div><div>May 6, 2024 - May 8, 2024</div><div>Cancel</div></div>
	Name: Basic Arduino Learning Kit Model: COMPUTER ACCESORIES	Brand: ThaiEasyElec Location: HA3 - HM Inventory Zone A Storage 3	<div><div>Pending</div><div>May 6, 2024 - May 7, 2024</div><div>Cancel</div></div>
	Name: Digital Multimeter UT89XD Model: MULTIMETER KITS	Brand: UNI-T Location: HA3 - HM Inventory Zone A Storage 3	<div><div>Rejected</div><div>April 23, 2024 - April 26, 2024</div><div>Message</div></div>

2.2. QR-code page

Most items will have a QR-code on them. This QR-code has 2 functionalities. One for the user that wants to borrow it and one for the supervisor that is going to check the items. In this part we will only cover the user part.

When the student scans the QR-code they will be redirected to this page. Here they can see the item and if the item is available or not. If the item is available and the user wants to borrow it, they can by simply pressing on the "Borrow" button.

Digital Multimeter UT89XD	
	<div><div>Model</div>MULTIMETER KITS<div>Brand</div>UNI-T<div>Location</div>HA3 - HM Inventory Zone A Storage 3<div>Borrow</div></div>
Digital Multimeter UT89XD	
	<div><div>Model</div>MULTIMETER KITS<div>Brand</div>UNI-T<div>Location</div>HA3 - HM Inventory Zone A Storage 3<div>Not available for borrow</div><div>May 6, 2024 - May 8, 2024</div></div>

2.3. Return

When you made a request, a supervisor approved the request and when you actually received the item you will see your item show up in the return section of our application.

Here you can see how many days remain before you must bring it back and if it's already too late or not.

When clicking on return your request will be put into "Pending", waiting until the supervisor received your item.


← Returns

Name
Search

Borrow Date
Select Dates

Filters applied:

CURRENT BORROWS 2




4 days remaining

Name: Basic Arduino Learning Kit
Model: COMPUTER ACCESSORIES

Borrow date: May 10, 2024
Return date: May 14, 2024

Brand: ThaiEasyElec
Location: HA3 - HM Inventory Zone A Storage 3

Return



2 days late

Name: Ploeg E
Model: multimeter

Borrow date: May 6, 2024
Return date: May 8, 2024

Brand: uni-t
Location: HF2 - HM Inventory Zone F Storage 2

Return


← Returns

Name
Search

Borrow Date
Select Dates

Filters applied:

CURRENT BORROWS 2




4 days remaining

Name: Basic Arduino Learning Kit
Model: COMPUTER ACCESSORIES

Borrow date: May 10, 2024
Return date: May 14, 2024

Brand: ThaiEasyElec
Location: HA3 - HM Inventory Zone A Storage 3

Return



Pending return

Name: Ploeg E
Model: multimeter

Borrow date: May 6, 2024
Return date: May 8, 2024

Brand: uni-t
Location: HF2 - HM Inventory Zone F Storage 2

2.4. History

When the supervisor receives your return request your item will be marked as “complete”. This means the request has been finished and for the user you will see your items appear on the history page.

History

Name







Search

Borrow Date

Select Dates

Filters applied:

ALL BORROWED11

	<div><div>Name: Basic Arduino Learning Kit</div><div>Model: COMPUTER ACCESSORIES</div></div>	<div><div>Borrowed: May 6, 2024</div><div>Returned: May 7, 2024</div></div>	<div><div>Brand: ThaiEasyElec</div><div>Location: HA3 - HM Inventory Zone A Storage 3</div></div>
	<div><div>Name: Basic Arduino Learning Kit</div><div>Model: COMPUTER ACCESSORIES</div></div>	<div><div>Borrowed: May 3, 2024</div><div>Returned: May 6, 2024</div></div>	<div><div>Brand: ThaiEasyElec</div><div>Location: HA3 - HM Inventory Zone A Storage 3</div></div>
	<div><div>Name: Basic Arduino Learning Kit</div><div>Model: COMPUTER ACCESSORIES</div></div>	<div><div>Borrowed: April 29, 2024</div><div>Returned: April 30, 2024</div></div>	<div><div>Brand: ThaiEasyElec</div><div>Location: HA3 - HM Inventory Zone A Storage 3</div></div>
	<div><div>Name: Basic Arduino Learning Kit</div><div>Model: COMPUTER ACCESSORIES</div></div>	<div><div>Borrowed: April 29, 2024</div><div>Returned: April 30, 2024</div></div>	<div><div>Brand: ThaiEasyElec</div><div>Location: HA3 - HM Inventory Zone A Storage 3</div></div>
	<div><div>Name: Basic Arduino Learning Kit</div><div>Model: COMPUTER ACCESSORIES</div></div>	<div><div>Borrowed: April 29, 2024</div><div>Returned: April 30, 2024</div></div>	<div><div>Brand: ThaiEasyElec</div><div>Location: HA3 - HM Inventory Zone A Storage 3</div></div>
	<div><div>Name: Basic Arduino Learning Kit</div><div>Model: COMPUTER ACCESSORIES</div></div>	<div><div>Borrowed: April 25, 2024</div><div>Returned: April 26, 2024</div></div>	<div><div>Brand: ThaiEasyElec</div><div>Location: HA3 - HM Inventory Zone A Storage 3</div></div>

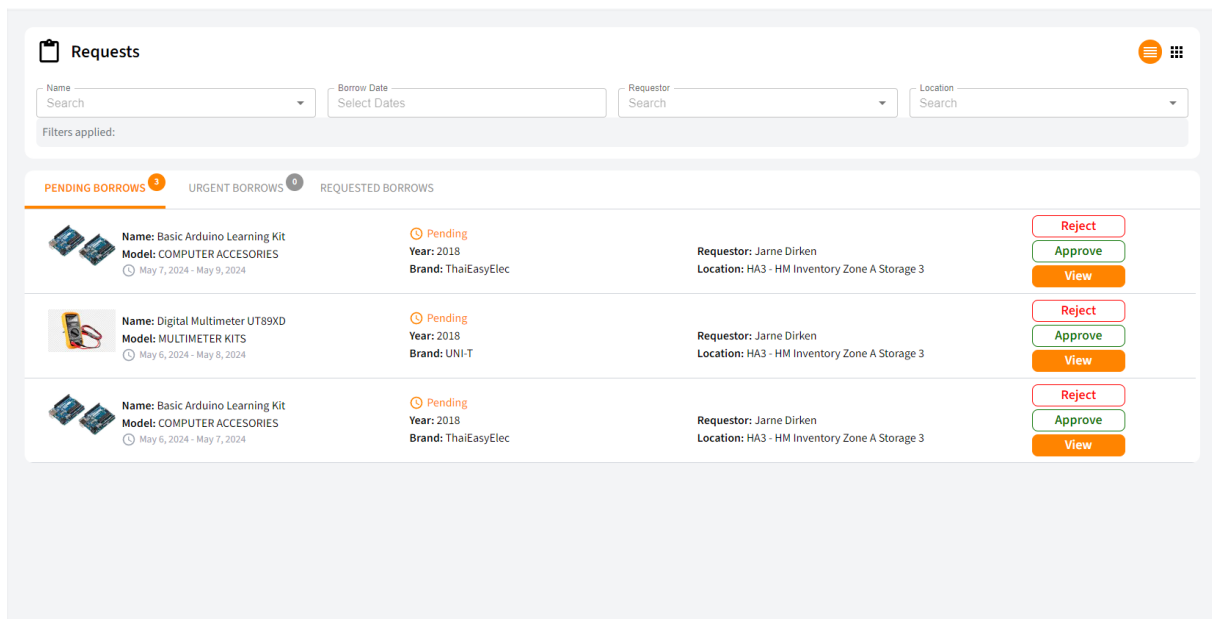
That was the whole cycle for the student.

3. Supervisor

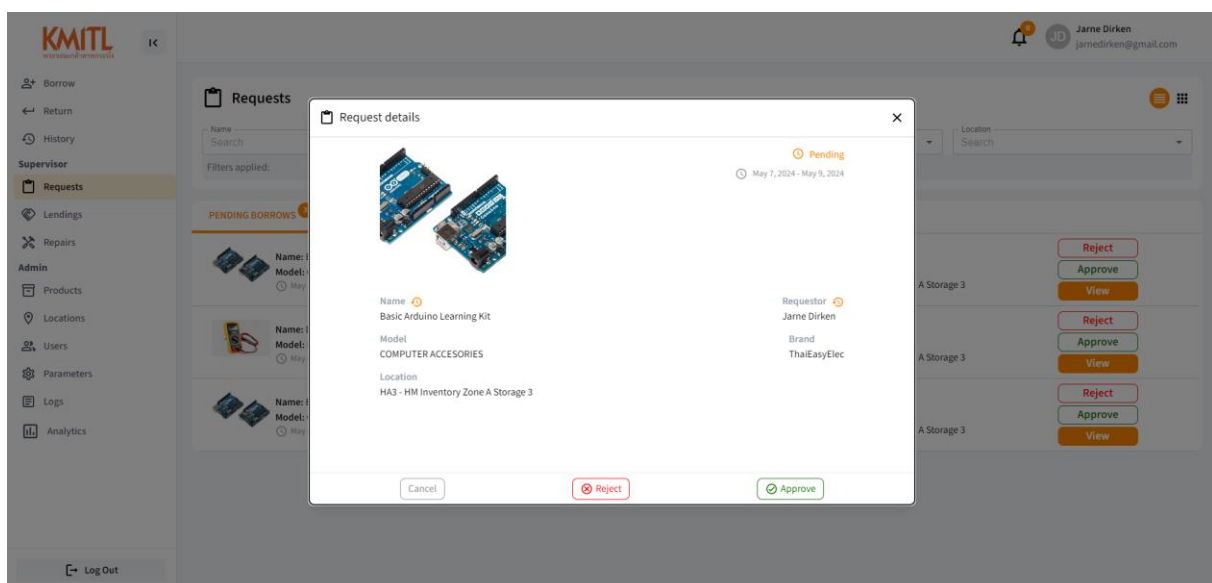
3.1. Requests

For the supervisor you start with the request page. Here all the requests will come in. There are two types of requests, normal borrows or urgent borrows. These are shown at the top with a number next to them. This way you can easily see how many of each there are.

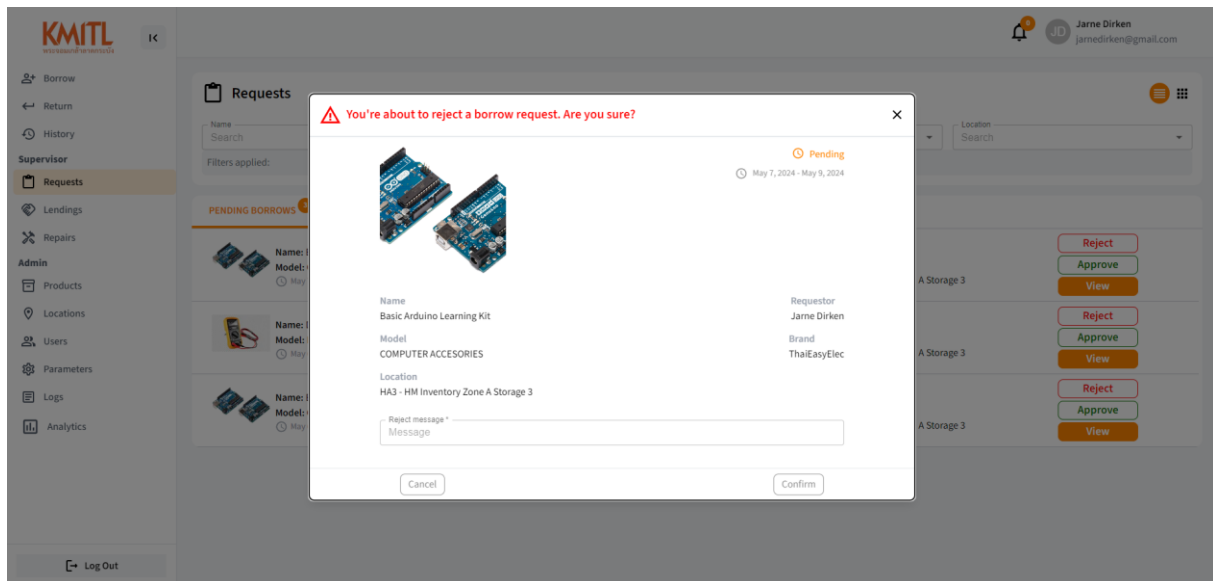
When viewing a borrow request you can choose to view it or approve or reject it.



In our example we click on view so we can view the information before accepting or rejecting the request. Here we can view the mutual history of the item or user by clicking on the clock next to the name.

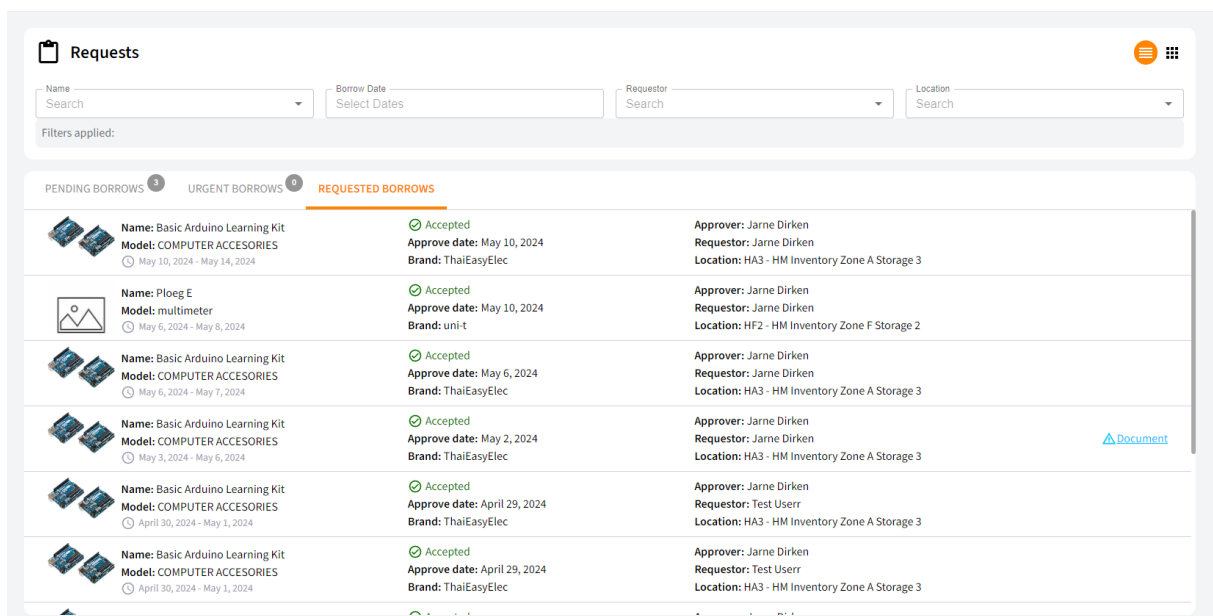


When clicking on accept or reject you will get a confirmation message asking if you really want to accept or reject a request. When rejecting a request, a message is mandatory, when accepting a request it is optional.





After accepting or rejecting a request the user will get a notification saying that the request has been processed and that they must come pick it up at the given location at the given time.

Then in the last tab "Requested borrows", you will see all the borrows that have been requested. Here you can see what has been rejected, accepted, if there was a document connected to the request (urgent).




3.2. Mutual history page


When clicking on the clock icon we can see the item or user history page. Here you can view the history and export all data to excel.



Jarne Dirken
jarnedirken@gmail.com




History of Jarne Dirken































Name
Search

Borrow Date
Select Dates


Filters applied:

REQUESTED BORROWS 


 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 25, 2024 - April 26, 2024</div>	 <div>Repaired Approve date: April 25, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 23, 2024 - April 25, 2024</div>	 <div>Repaired Approve date: April 23, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: HDMI Cable 3m Model: COMPUTER ACCESSORIES April 25, 2024 - April 26, 2024</div>	 <div>Broken Approve date: April 23, 2024 Brand: Unitek</div>	 <div>On Time Approved by: Jarne Dirken Location: HC3 - HM Inventory Zone C Storage 3</div>	
 <div>Name: Digital Multimeter UT89XD Model: MULTIMETER KITS April 23, 2024 - April 26, 2024</div>	 <div>Rejected Reject date: April 23, 2024 Brand: UNI-T</div>	 <div>On Time Rejected by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 25, 2024 - April 26, 2024</div>	 <div>Repaired Approve date: April 23, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 16, 2024 - April 17, 2024</div>	 <div>Checked Approve date: April 18, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
Name: Arduino Mega 2560 D3	 <div>Broken</div>	 <div>2 days late</div>	



Jarne Dirken
jarnedirken@gmail.com



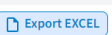
History of Jarne Dirken





























Name
Search

Borrow Date
Select Dates

Filters applied:

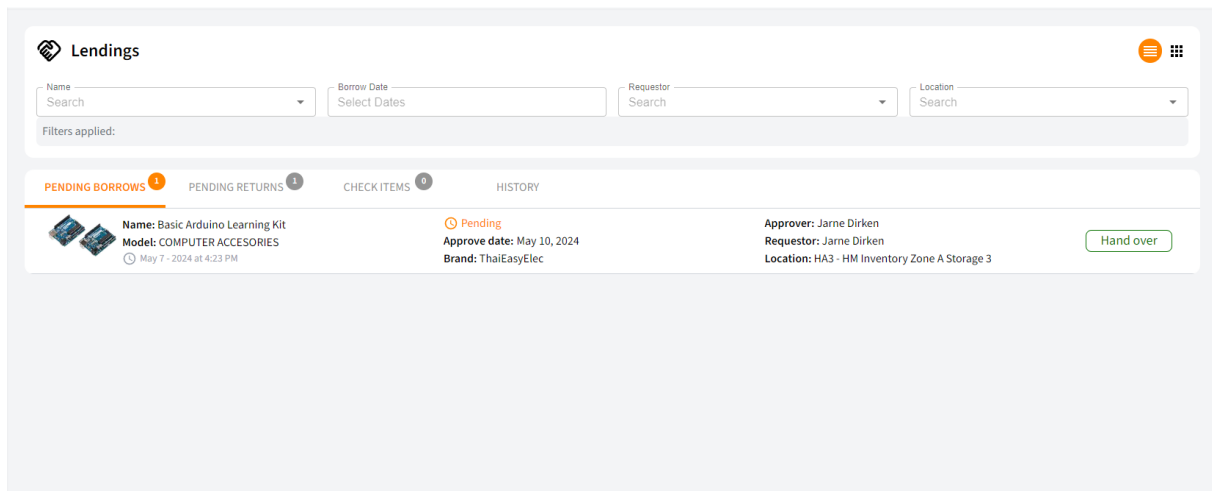
REQUESTED BORROWS 

 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 25, 2024 - April 26, 2024</div>	 <div>Repaired Approve date: April 25, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 23, 2024 - April 25, 2024</div>	 <div>Repaired Approve date: April 23, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: HDMI Cable 3m Model: COMPUTER ACCESSORIES April 25, 2024 - April 26, 2024</div>	 <div>Broken Approve date: April 23, 2024 Brand: Unitek</div>	 <div>On Time Approved by: Jarne Dirken Location: HC3 - HM Inventory Zone C Storage 3</div>	
 <div>Name: Digital Multimeter UT89XD Model: MULTIMETER KITS April 23, 2024 - April 26, 2024</div>	 <div>Rejected Reject date: April 23, 2024 Brand: UNI-T</div>	 <div>On Time Rejected by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 23, 2024 - April 24, 2024</div>	 <div>Repaired Approve date: April 23, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
 <div>Name: Basic Arduino Learning Kit Model: COMPUTER ACCESSORIES April 16, 2024 - April 17, 2024</div>	 <div>Checked Approve date: April 18, 2024 Brand: ThaiEasyElec</div>	 <div>On Time Approved by: Jarne Dirken Location: HA3 - HM Inventory Zone A Storage 3</div>	
Name: Arduino Mega 2560 D3	 <div>Broken</div>	 <div>2 days late</div>	

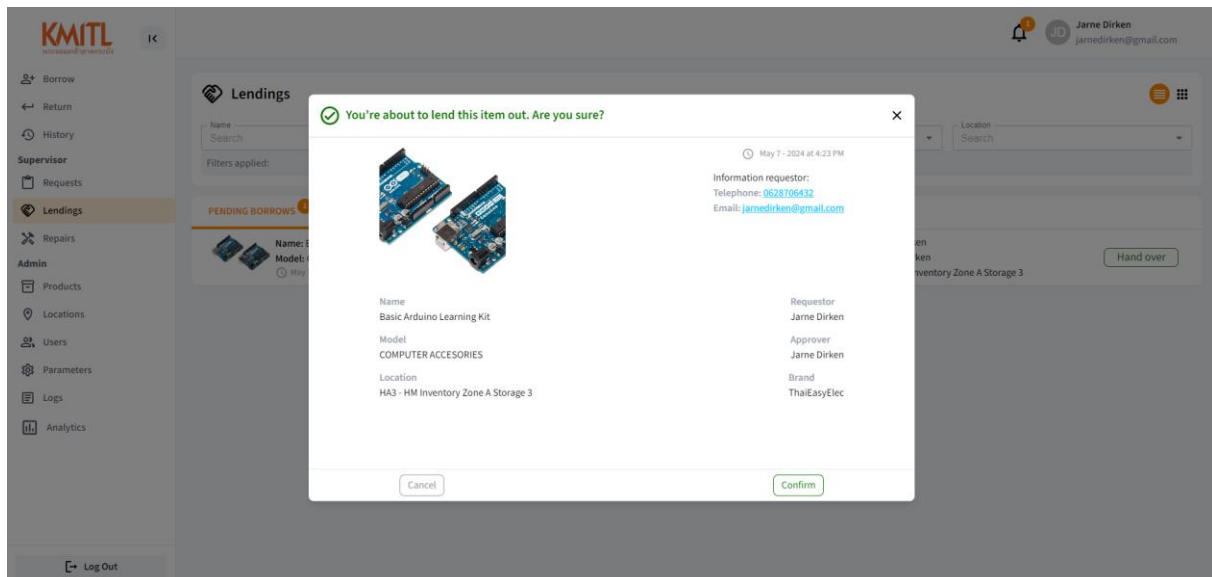
3.3. Lendings

When a supervisor approves a request, the student must come and pick up the item at the given location. This means that we must check whether we have actually given the item away or not. This is what the tab lending's is for. It works as a double check in order to make sure we have handed over the item to the student.

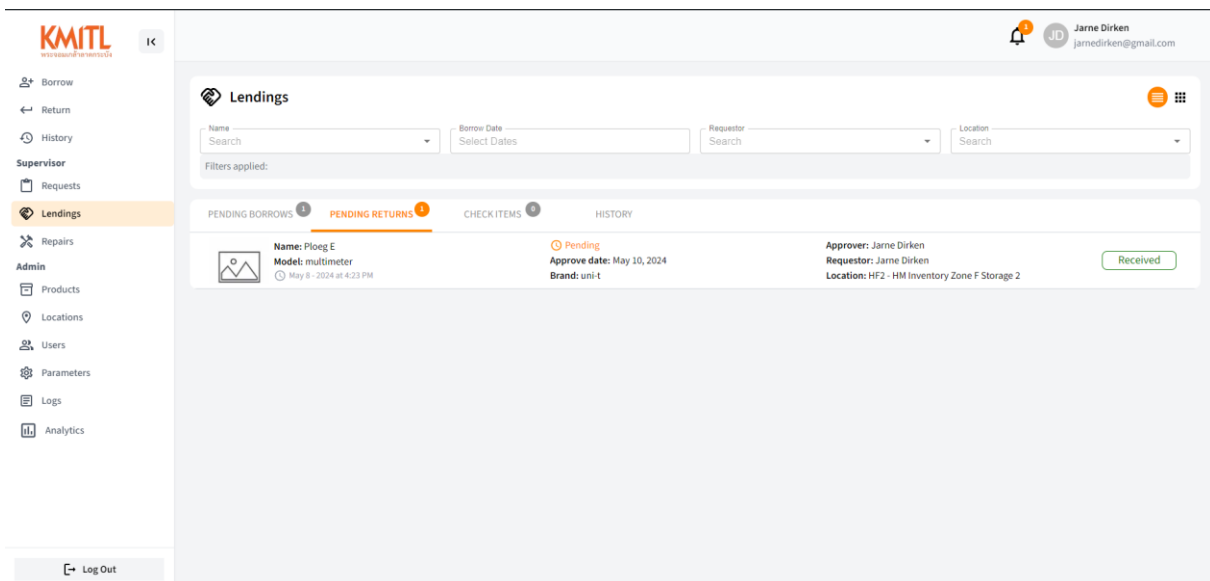
Here we can view some information about the item and what user needs to come and pick it up. When clicking on "Hand Over" A popup appears with more detailed information.



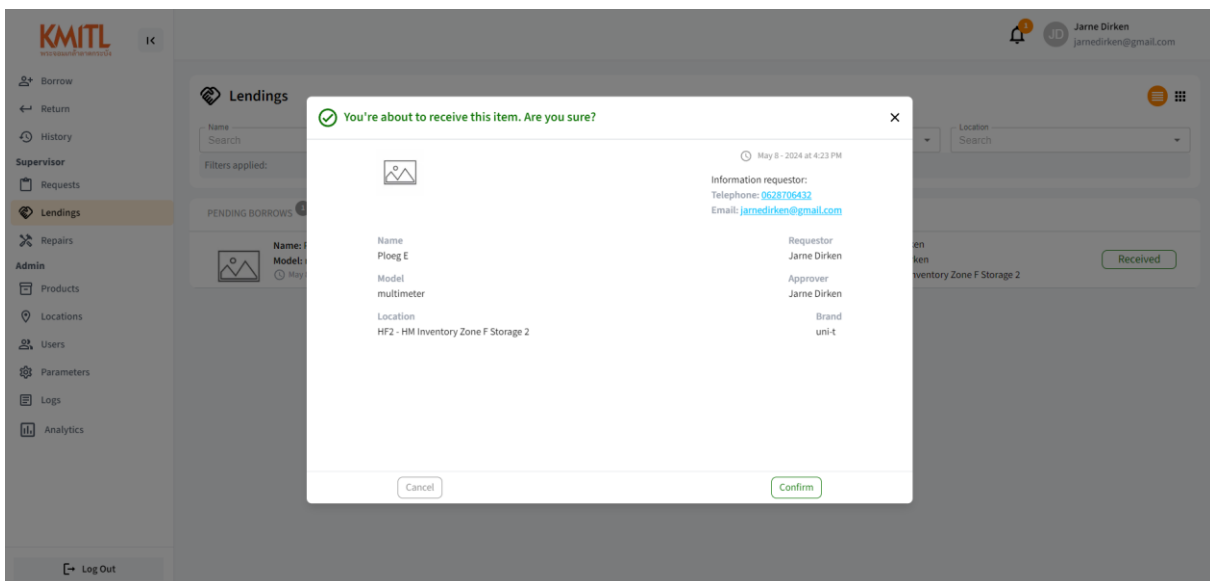
Seeing the popup, we see more information about the user like telephone number and email. Here we can click confirm if we have handed over the item to the user.



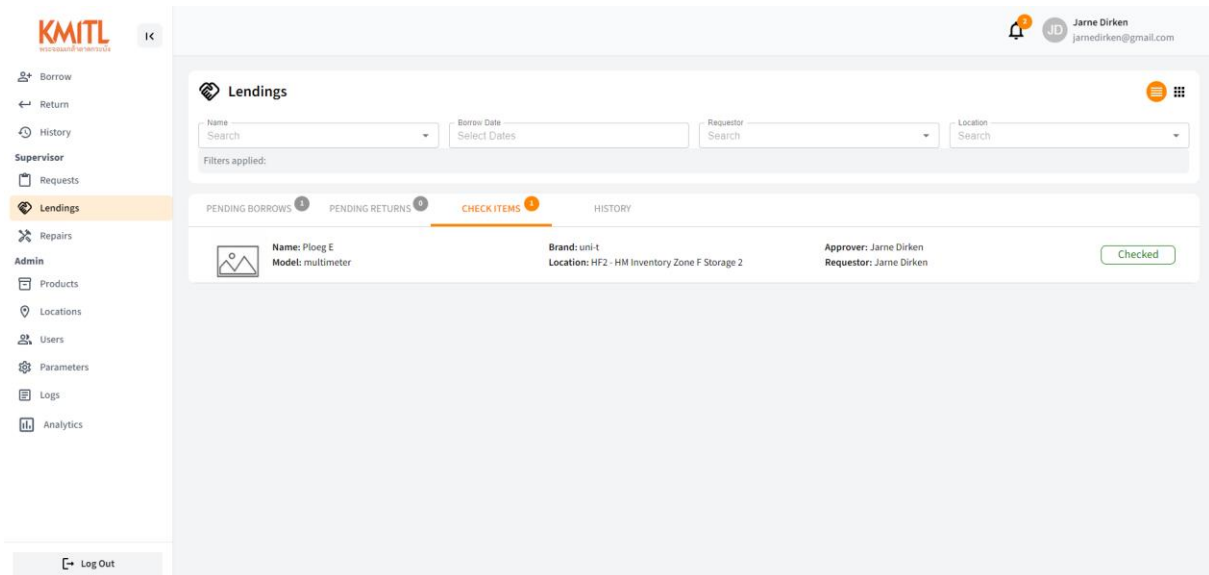
Going further, we have another tab for “Pending Returns” right next to “Pending Borrows” This tab does exactly the same thing as pending borrows but the other way around. Now we are not giving away the item, but we are receiving it. Because when a user clicks on “Returned” we have to check if we have returned this item.



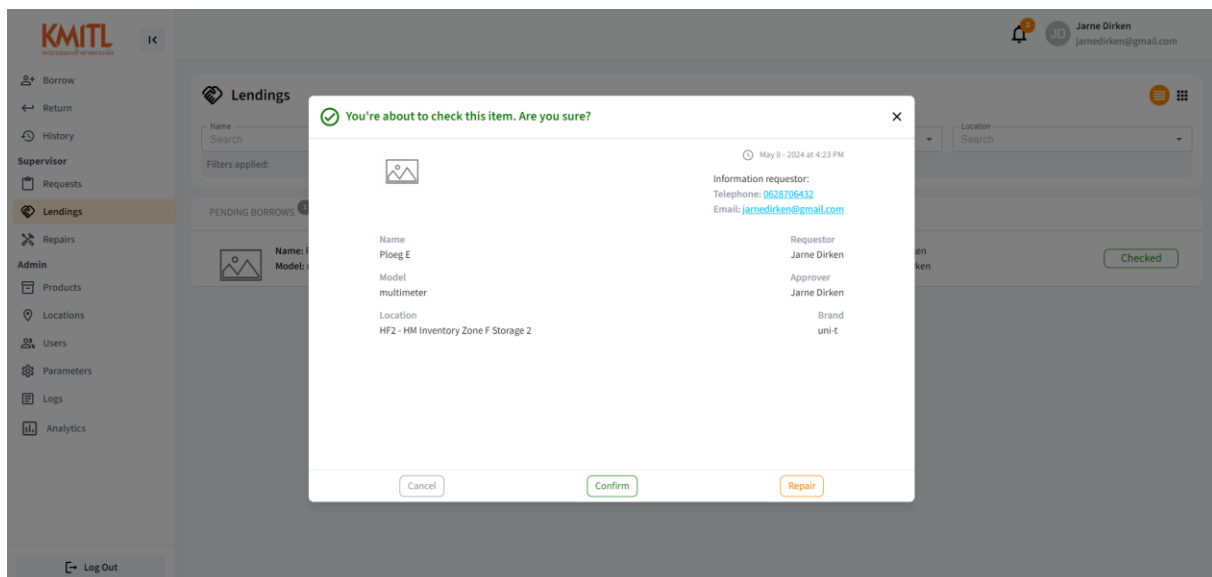
When we have received the item, we can click on the button “Received” this will open a popup with more information, the same as pending borrows. Here we can choose to call up our fellow student if he has not returned the item or accepts it.



Next stage in the lending's process is that we must check the items. When students bring back an item the supervisor doesn't always have time to check the item on the spot. This is why all the items that have been returned will be placed in the "Check Item" Tab. This way the supervisor can later check all the items that have been returned to see if they have been damaged or not.

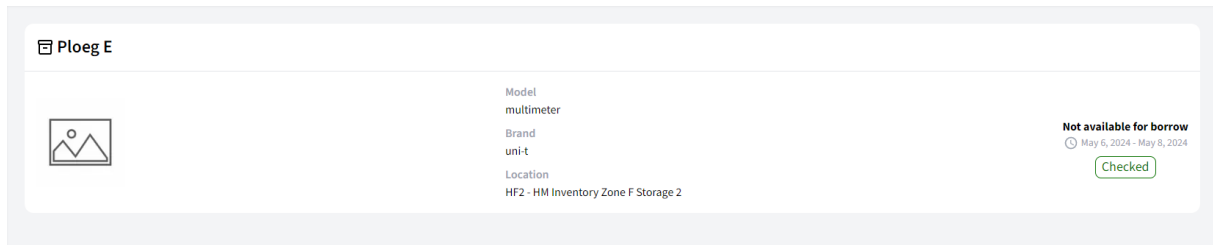


After clicking on "Checked" the supervisor will be prompted with a confirmation popup where he can choose to confirm the item as good or to put it in repair. When putting an item in repair the supervisor must give a message so we can keep track of what actually broke with the item.



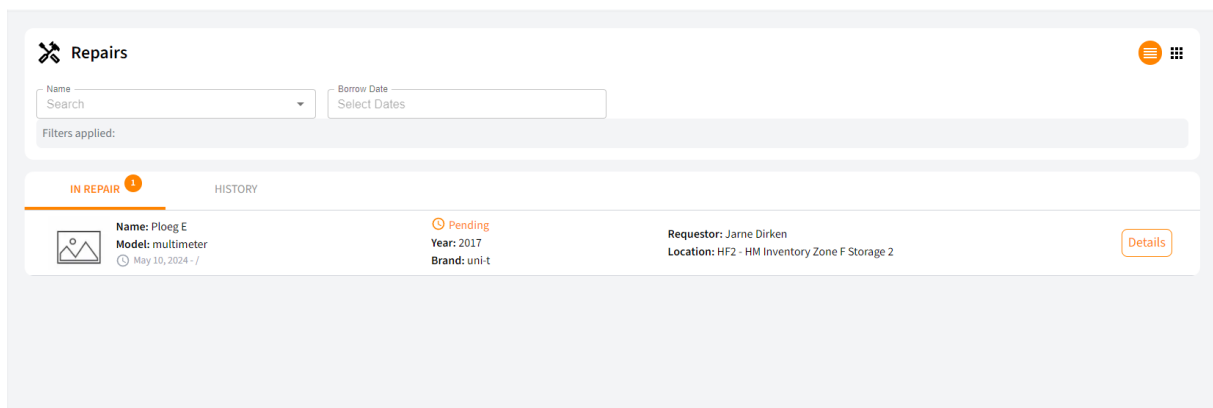
3.4. QR-Code page

The same as lending's where you can check the item is this page for the supervisor. When checking the items you can easily scan the item you checked and from your phone by scanning the QR code on the item, you will be able to mark it as good or put it in for repair. (Only supervisors or admins will be able to see this "Checked" button.)

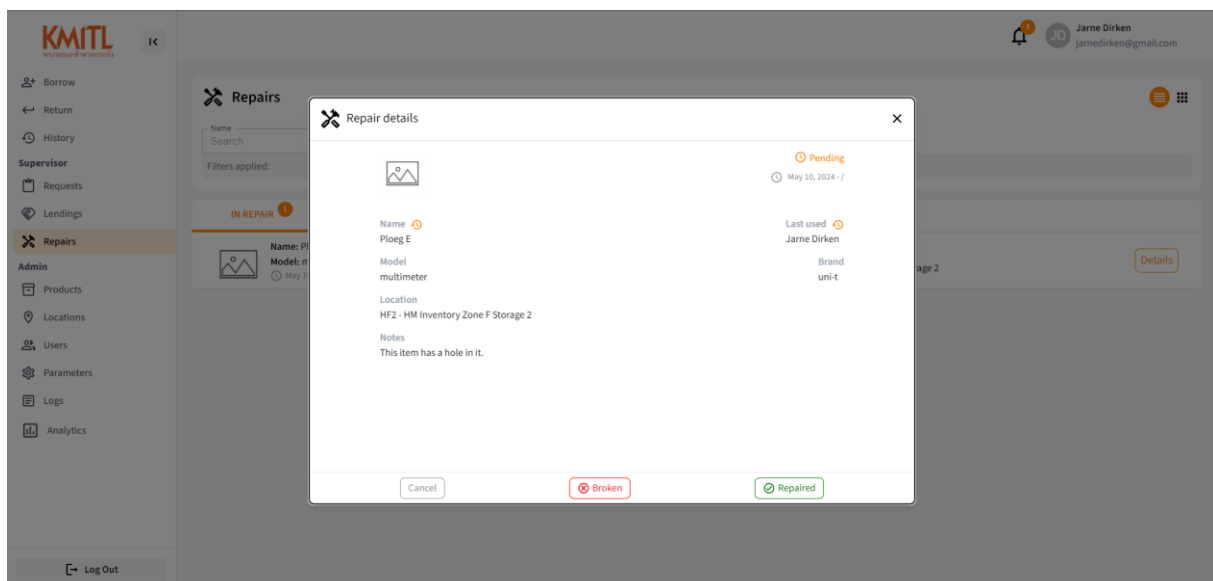


3.5. Repairs

The last page to where supervisors have access is the repair page. Here we will see all the current items that are in reparation.



When clicking on details you will be greeted with more details about the reparation request. Here you can mark the item as repaired or broken.



4. Administrator

4.1. Products

We have finally arrived at the administrator side of the application. This is where we will be able to configure and manage everything. First the products tab where we can add, edit, delete, soft delete, make QR-codes, export or import products.

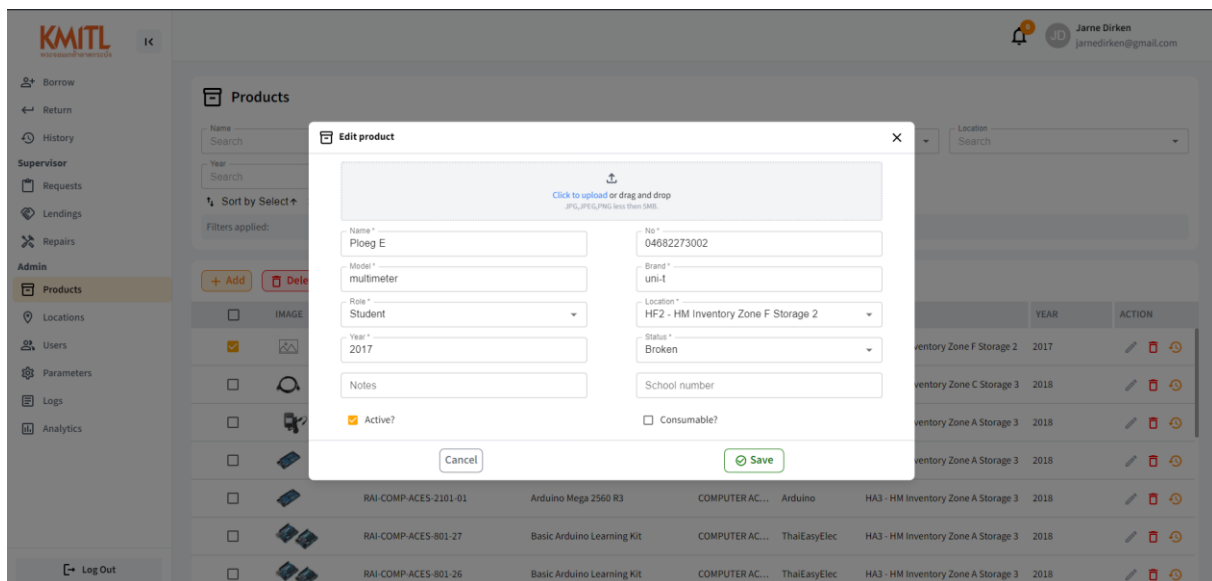
The screenshot shows the KMITL Products management interface. On the left is a sidebar with navigation links: Borrow, Return, History, Supervisor, Requests, Lendings, Repairs, Admin, Products (selected), Locations, Users, Parameters, Logs, and Analytics. The main content area is titled 'Products' and includes search filters for Name, Model, Brand, Location, Year, and Availability. Below the filters are buttons for '+ Add', 'Delete', 'QR-Code', 'Export EXCEL', and 'Import EXCEL'. A table lists products with columns for IMAGE, NO., NAME, MODEL, BRAND, LOCATION, YEAR, and ACTION. The table contains several rows of product data, including items like 'Ploeg E', 'HDMI Cable 3m', 'AC-DC Adapter 9V, 2A', and various Arduino kits.

First, we will look at how we can add a new product. We simply press on the button add at the top and we get a popup where we can fill in everything that a product needs. Standard is the product active, available for borrowing and from this current year. These can be changed but are just here to make your life a bit easier.

Fields: name, brand, model, location are all autocomplete to make the users life easier when trying to create multiple of the same product. Image is optional.

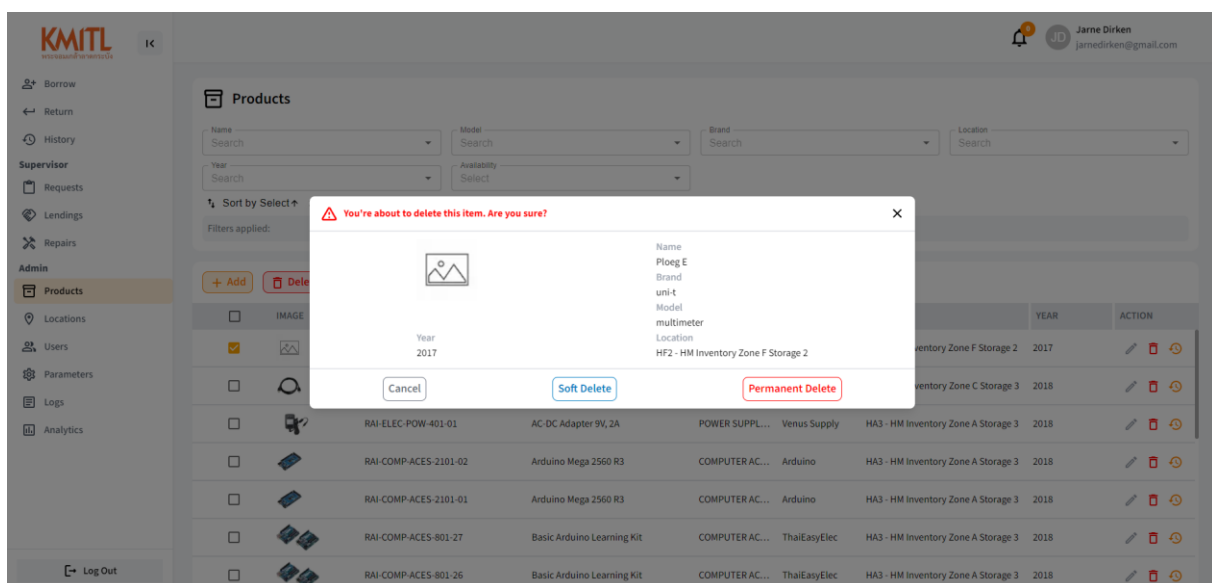
The screenshot shows the 'Add product' popup form. It includes a header with a close button and a link to upload or drag and drop an image. The form contains several input fields: Name *, Model *, Brand *, Location *, Year *, Status *, Notes, School number, and checkboxes for Active? and Consumable?. The 'Add' button is highlighted in green.

Next, we will see the edit functionality because this one is the most similar to add. We simply click on the pencil at the end of if we want to edit an item and we see the same popup appear, but this time are all the fields filled in with data. We can choose to change these fields and press save to update an item.

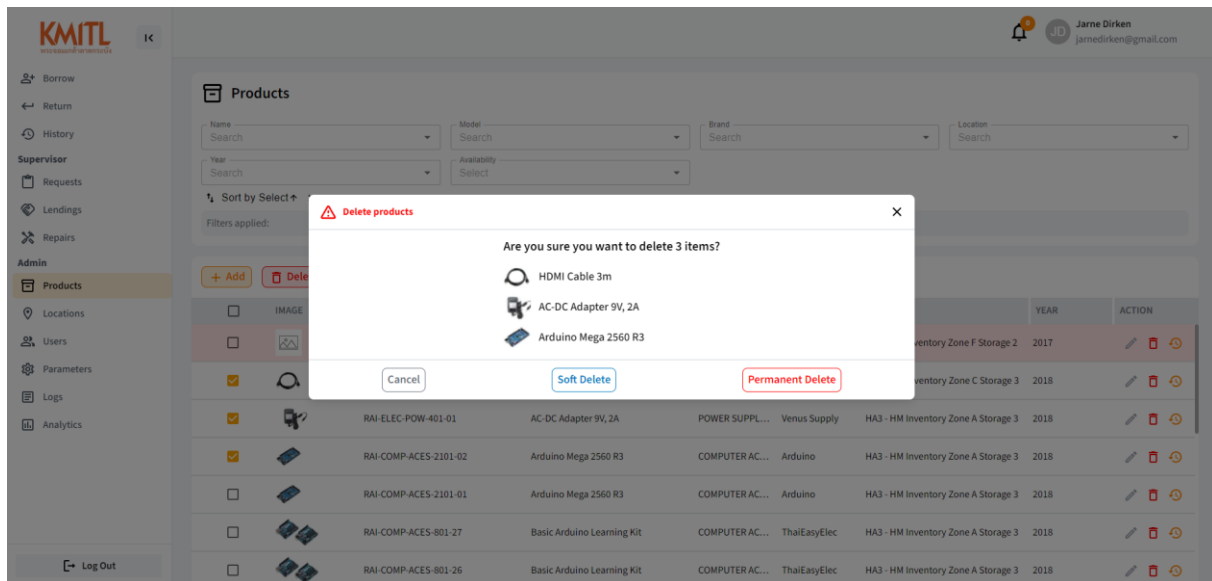


After this we will look at the single item "delete". This can be done by either selecting one item on the left and then pressing the button delete at the top or clicking the delete icon associated with the item you want to delete.

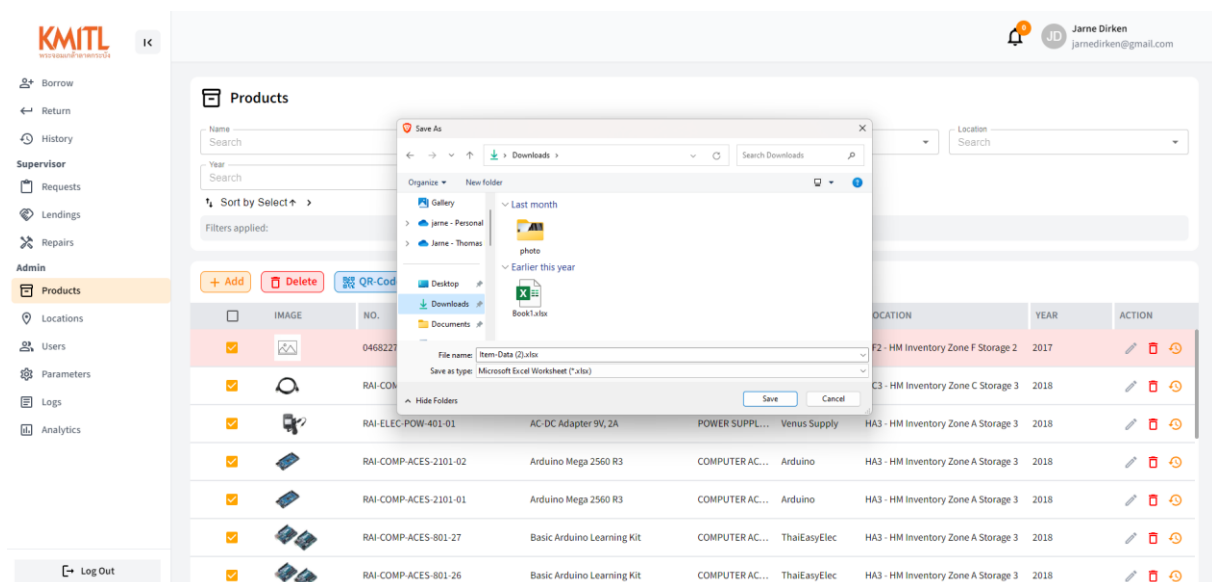
You will get a confirmation popup asking if you really want to delete the item. Here you can select soft delete (this will put the item inactive so no one can borrow it) or permanently delete the item this way the item is really gone from the database.



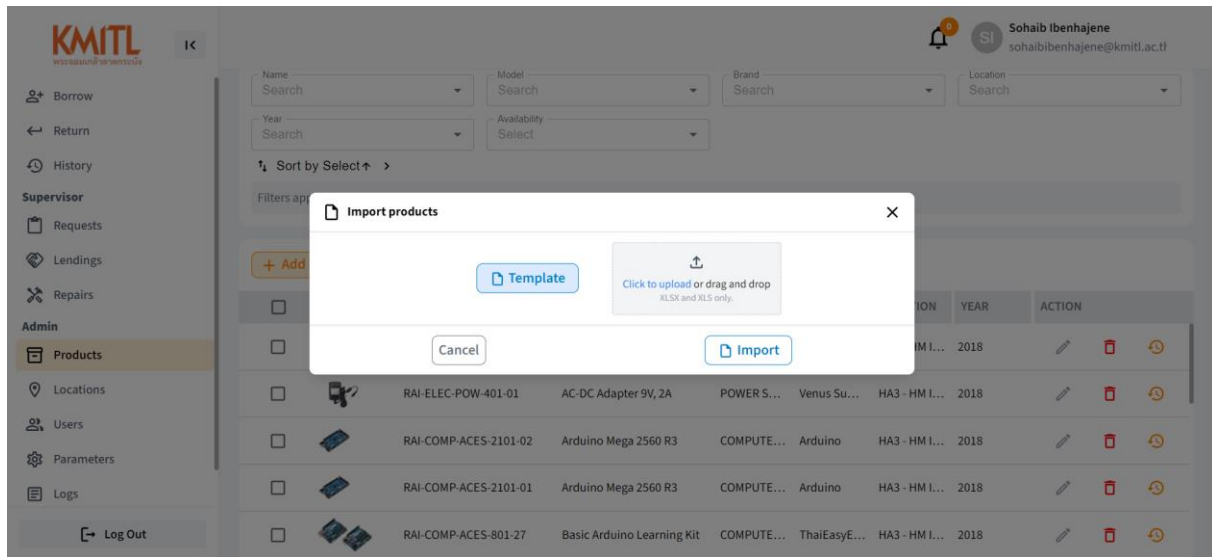
We can also select multiple items and press the button “delete” at the top. This will give us this popup where we can see a quick overview of the items we have selected. Now we can choose to delete or soft delete all these items.



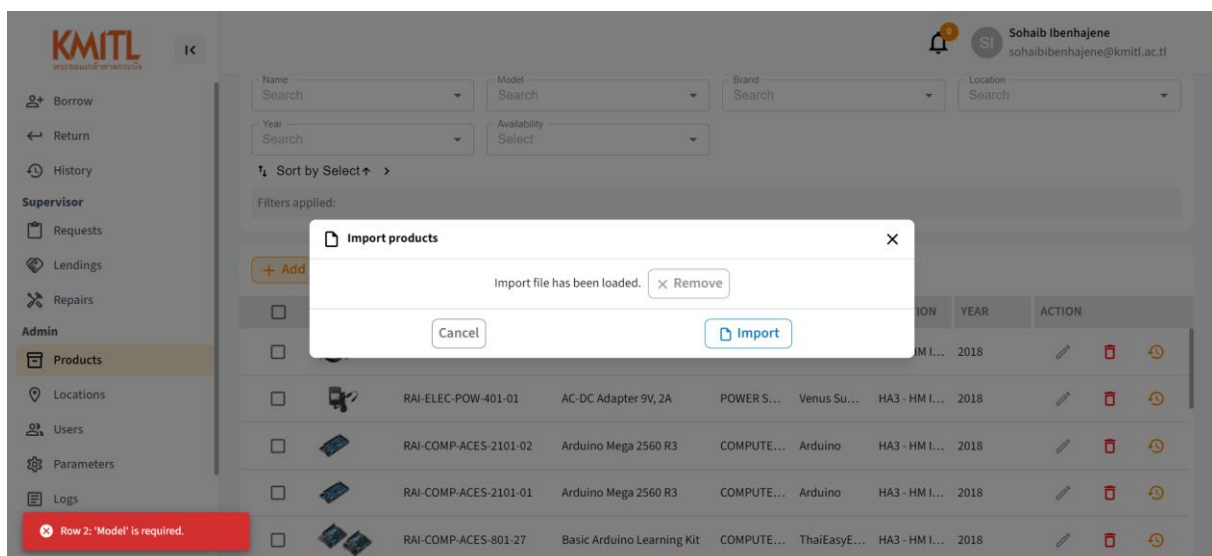
If we want to export data to excel, we can simply select the data we want to export. Or filter on the data by entering the name, model, location. We can select everything by clicking on the topmost checkbox. This will select everything. Then we can click “Export Excel” and we will get a file that we can save on our computer with the data.



As for the import from an excel sheet. As you can see from the image. If you press on the import excel button, you'll be met with a popup modal.

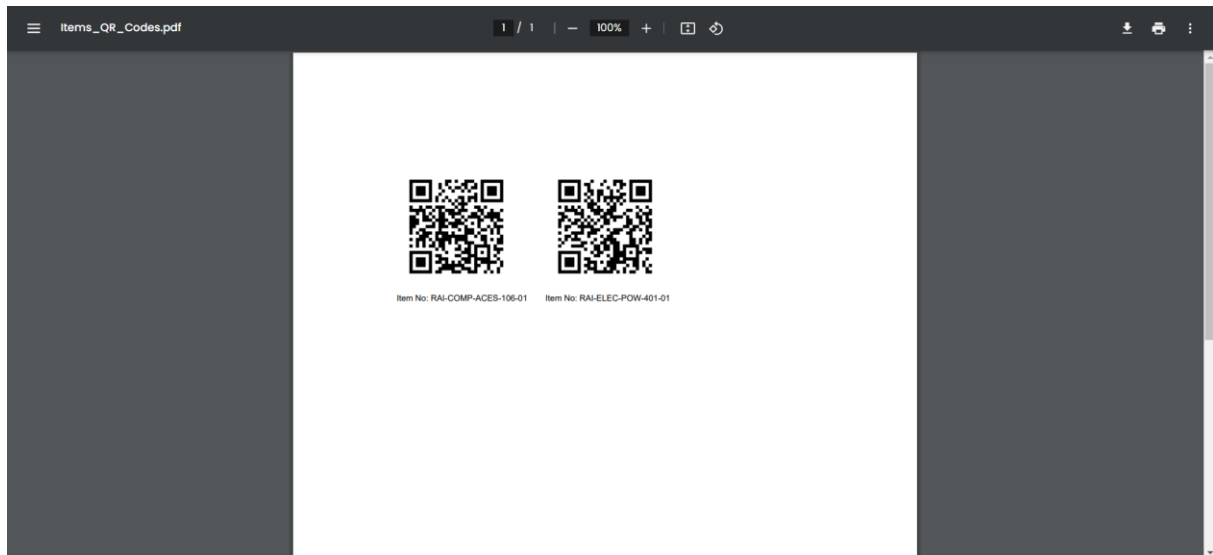


There are two options in this modal, you can either choose to upload an excel sheet or you can download the template that we provide for the user. You can then fill in this template with all the data that you would like to import into the application. If you upload a file that does not meet the requirements set by the system you'll receive an error message telling you what you're doing wrong and on what row it is.



You can then change the file accordingly, until there are no errors. Then you can safely import all the data that you want into the application.

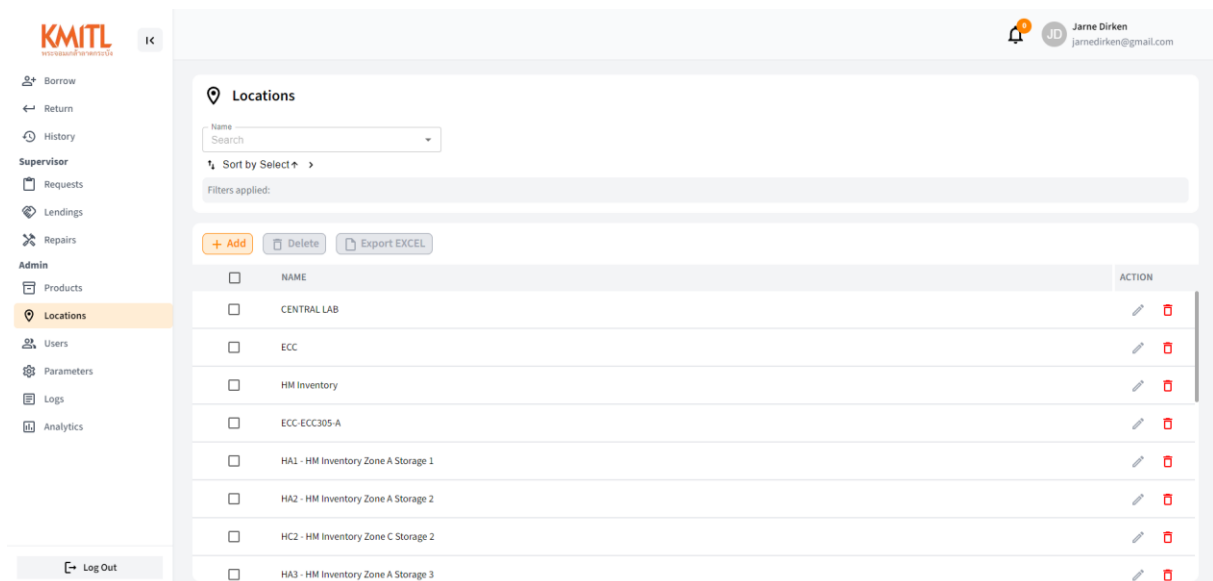
As for generating QR-codes for items, it is very easy to do. All you have to do is select the products for which you want to generate a QR-code and then press on the generate QR-code button, then you'll get the option to download a pdf document that looks like the image below.



Finally, you can scan these QR-codes and you'll be brought to a page with the details for the specific item that you scanned.

4.2. Locations

As you can see from the image. Locations have the exact same functionalities as products. The add, delete, edit, multi delete all work the exact same.



4.3. Users

As you can see from the image. Users have the exact same functionalities as products. The add, delete, edit, multi delete all work the exact same.

The screenshot shows the 'Users' management page in the KMITL system. The left sidebar contains navigation links: Borrow, Return, History, Supervisor, Requests, Lendings, Repairs, Admin, Products, Locations, Users (highlighted), Parameters, Logs, and Analytics. The main content area is titled 'Users' and includes search filters for First Name, Last Name, E-mail, and Level. Below the filters are buttons for '+ Add', 'Delete', and 'Export EXCEL'. A table lists two users: 'Test' (Student) and 'jame dirken' (Admin). Each user row has checkboxes for selection and icons for edit, delete, and multi-delete actions. The bottom of the sidebar has a 'Log Out' button.

	FIRST NAME	LAST NAME	STUDENT CODE	TELEPHONE	EMAIL	ROLE	ACTION
<input type="checkbox"/>	Test	Userr	87654321	0812345678	dirkendigital@gmail.com	Student	
<input type="checkbox"/>	jame	dirken	12345678	0628706432	jamedirken@gmail.com	Admin	

4.4. Parameters

The parameter page looks simple because it has only one purpose, change some specifications of our system. In this case we can change the start and end borrow and return time with the buffer time. Buffer time should always be the time in minutes and for the others we have date time pickers so that we can select the exact time we want. This influences the times the students can make borrow requests.

The screenshot shows the 'Parameters' configuration page. The left sidebar is identical to the previous page, with 'Parameters' highlighted. The main content area is titled 'Parameters' and contains five time input fields: 'Start Morning Time' (12:00 PM), 'End Morning Time' (01:00 PM), 'Start Evening Time' (04:00 PM), 'End Evening Time' (05:00 PM), and 'Morning buffer time' (min 30). There is also an 'Evening buffer time' field set to 'min 30' and a 'Save' button. The bottom of the sidebar has a 'Log Out' button.

4.5. Logs

As we know sometimes, we get a notification when making a request, canceling, accepted, etc. An admin can view all the logs that happened in our application on this page. This way there will be no confusion when something happens. The admin can simply go back and view who did what at the given time.

KMITL Knowledge Management Information Technology Laboratory

JD Jarne Dirken
jarnedirken@gmail.com

Logs [Export EXCEL](#)

User: Jarne Dirken has been deleted by Sohaib Ibenhajene -> with role: Admin - 5/10/2024, 5:58:24 PM | [🔗](#)
New user: Jarne Dirken has been created from Sohaib Ibenhajene -> with role: Admin - 5/10/2024, 5:55:30 PM | [🔗](#)
Ploeg E successfully received -> with role: Admin - 5/10/2024, 4:55:39 PM | [🔗](#)
Your request for Basic Arduino Learning Kit has been approved - pick it up at HA3 - HM Inventory Zone A Storage 3 -> with role: Admin - 5/10/2024, 4:46:56 PM | [🔗](#)
New user: Jarne Dirken has been created from Sohaib Ibenhajene -> with role: Admin - 5/10/2024, 4:30:26 PM | [🔗](#)
User jarne dirken returned: Ploeg E -> with role: Admin - 5/10/2024, 2:00:53 PM | [🔗](#)
Basic Arduino Learning Kit successfully received -> with role: Admin - 5/10/2024, 1:55:43 PM | [🔗](#)
Your request for Basic Arduino Learning Kit has been approved - pick it up at HA3 - HM Inventory Zone A Storage 3 -> with role: Admin - 5/10/2024, 1:55:40 PM | [🔗](#)
New borrow request from jarne dirken -> with role: Admin - 5/10/2024, 1:55:36 PM | [🔗](#)
Ploeg E successfully received -> with role: Admin - 5/10/2024, 1:55:18 PM | [🔗](#)
Your request for Ploeg E has been approved - pick it up at HF2 - HM Inventory Zone F Storage 2 -> with role: Admin - 5/10/2024, 1:55:08 PM | [🔗](#)
New borrow request from jarne dirken -> with role: Admin - 5/10/2024, 1:42:54 PM | [🔗](#)
New borrow request from jarne dirken -> with role: Admin - 5/10/2024, 1:29:12 PM | [🔗](#)
Location: Test has been deleted by Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:38:22 AM | [🔗](#)
New location: Test has been created from Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:37:57 AM | [🔗](#)
Location: gsdrgig, with ID: 26 has been permanently deleted by Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:45 AM | [🔗](#)
Location: dawdwad, with ID: 25 has been permanently deleted by Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:45 AM | [🔗](#)
New location: gsdrgig has been created from Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:38 AM | [🔗](#)
New location: dawdwad has been created from Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:35 AM | [🔗](#)
Location: Jarne Smooth af has been deleted by Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:31 AM | [🔗](#)
Location: Jarne Smooth af has been updated by Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:24 AM | [🔗](#)
New location: Drifting has been created from Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:18:03 AM | [🔗](#)
Location: Test has been deleted by Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:16:58 AM | [🔗](#)
New location: Test has been created from Sohaib Ibenhajene -> with role: Admin - 5/7/2024, 8:16:52 AM | [🔗](#)
Basic Arduino Learning Kit successfully received -> with role: Admin - 5/6/2024, 2:27:48 PM | [🔗](#)
User jarne dirken returned: Basic Arduino Learning Kit -> with role: Admin - 5/6/2024, 2:27:43 PM | [🔗](#)
Basic Arduino Learning Kit successfully received -> with role: Admin - 5/6/2024, 2:27:40 PM | [🔗](#)
Your request for Basic Arduino Learning Kit has been approved - pick it up at HA3 - HM Inventory Zone A Storage 3 -> with role: Admin - 5/6/2024, 2:27:37 PM | [🔗](#)
Basic Arduino Learning Kit successfully received -> with role: Admin - 5/6/2024, 2:25:49 PM | [🔗](#)
Basic Arduino Learning Kit successfully received -> with role: Admin - 5/6/2024, 2:25:48 PM | [🔗](#)
Basic Arduino Learning Kit successfully received -> with role: Admin - 5/6/2024, 2:25:47 PM | [🔗](#)

[Log Out](#)

4.6. Analytics

As for an extra we made a quick little analytics page where we can view the bare minimum of data for our application. Standard filter is the current year. Here we can view a line chart of how many requests were made each month. On the pie chart we can view how many requests were made in total that year, how many requests were cancelled and how many were completed. The same goes for the KPI's at the bottom.

