



Test Project

Web Technologies

Day1 Server Side

Module B – Frontend Development

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Introduction:

"Campus Express" is a company that specializes in providing express delivery services to campus. They have set up courier stations within the school campuses, and truckers transport containers filled with packages according to designated transportation routes to the specified school campuses. Couriers are responsible for collecting packages and loading them into the containers, as well as delivering packages from containers received from other campuses. The increasing number of package has posed significant challenges for the company's management. Now, they are looking for you to develop a management system that can enhance their package handling efficiency.

The system consists of three platforms:

Client Platform: Clients can use this platform to inquire about the status of their packages, arrange new deliveries, and manage their own sent packages.

Staff Platform: Couriers can use this platform to manage the collection and delivery of packages, while truckers can update package locations during transportation.

Administrator Platform: Administrators can use this platform to manage user accounts, employee accounts, and the overall package handling process.

The project is split into two phases:

- Phase one (morning) for building the API and Administrator Platform using a PHP framework and MySQL database.
- Phase two (afternoon) for building the frontend parts for Client Platform and Staff Platform using HTML/CSS and a JavaScript framework, consuming the API developed in phase one.

Description of Project and Tasks:

Second 3 hours - Frontend Development

This phase two requires you to implement the Client and Staff platform frontend. The frontend should be implemented as a single page application using the framework of choice.

The Client platform provides the following features:

- Client Sign Up, Sign In, Sign Out
- Track a package
- Send a package
- Show all sent packages
 - Track and return operation

The Staff platform provides the following features:

- Staff Sign In, Sign Out
- Account Information



- Courier Functions
 - Pending pickup packages list with pickup packages operation
 - Pending delivery packages list with carry packages operation
 - Picked up packages list with pack packages operation
 - Delivering packages list with delivered operation
 - Delivered packages list
- Trucker Functions
 - Pending load containers list
 - Pending unload containers list
 - Route information
 - My truck

Non-Functional Requirements

- You are free to use the frontend technology of your choice.
- The application should run successfully in the versions of Google Chrome installed on your machine, with a width of 380 pixels and a height of 620 pixels set in devtools.

Client platform:

Sidebar

The button to open the sidebar is located on the right side of the header on each page, and the provided template already implements the sidebar open and close functionality.

The Sidebar includes :

- Link to Index page: Click and redirect to the Index page.
- Link to Send package page: Click and redirect to the Send package page.
- Link to My packages: Click and redirect to the My packages page.
- Link to Sign in page: After the client signs in, it will be hidden.
- Link to Sign up page: After the client signs in, it will be hidden.
- Logout: Visible only after client signs in.
 - The client can logout by clicking this element, and they will be redirected to the index page.
- User's name: First name and last name (Visible only after client signs in).

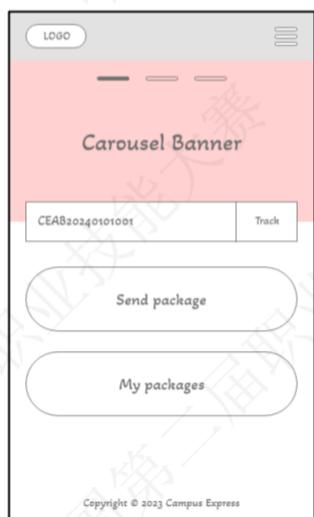


Page: Index

This is the main page that opens when the user visits the site. It must be reachable under the path /XX_Module_B/. User can access this page without sign in.

The functionality of this page includes:

- The carousel banner needs to be implemented by the competitor:
 - The transition animation for the banner is a scrolling effect from right to left <-<.
 - Clicking on the cylindrical button at the top of the banner area can switch the banner image.
 - The banner will automatically switch to the next image every 3 seconds.
 - When the currently displayed banner is the last one, the next image will be the first banner.
- When user clicks the track button, the system will check the entered tracking number. If there is a corresponding package, the user will be redirected to the tracking page. If the package does not exist, a prompt will appear on the page.
- User can use the package track function without sign in.
- When user clicks the Send package, they will be redirected to the send package page.
- When user clicks the My packages, they will be redirected to the my packages page.



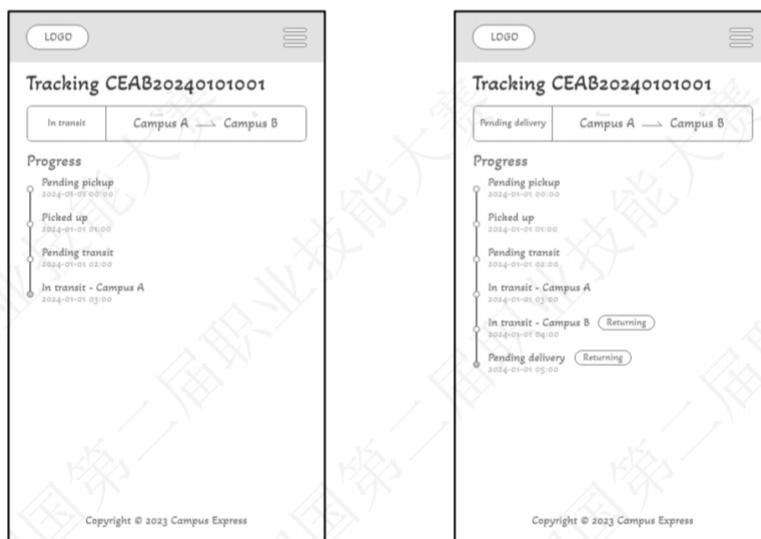


Page: Tracking package

This page displays information for tracking package by the tracking number. User can access this page without sign in.

For the package, the following is shown:

- Tracking Number
- Status
- From Campus
- To Campus
- Progress
 - If any node in the progress is returning, there should be a tip.



Page: Sign in

Here the client can enter their email and password to sign in.

If the client is already signed in and tries to access this page, they are redirected to the their index page (Path: "/XX_Module_B").

If the server responds that the request was not successful, a toast message will be shown.

If the sign in is successful, they are redirected to the index page (Path: "/XX_Module_B").





Page: Sign up

Here the user can enter email, password, repeat password, phone number, firstname and lastname to sign up.

If the user is already signed in and tries to access this page, they are redirected to the index page (Path: "/XX_Module_B/").

If the server responds that the request was not successful, a toast message will be shown.

If the sign up is successful, the user is immediately signed in as well and redirected to the index page Path: "/XX_Module_B/").

A mobile-style sign-up form titled "Sign up". It includes fields for Email, Password, Repeat Password, Phone Number, First Name, and Last Name. Each field has a placeholder text above it. Below the fields is a "Sign up" button. At the bottom of the form, there is a link "Have an account? Sign in." and a copyright notice "Copyright © 2023 Campus Express".

Page: Send package

User need to be signed in to access this page, if the user is not signed in and tries to access this page, they will be redirected to the sign in page.

Users need to correctly fill all input and select elements, and then click the "Send Now" button to submit.

Make sure that the values selected for From campus and To campus are not the same.

The form is titled "Send Package". It has two sections: "From" and "To". The "From" section contains a dropdown menu set to "Campus A" and an input field for "Address" containing "301, Building No.5". The "To" section contains an input field for "Recipient Name" with "John" typed in, and an input field for "Phone Number" with "12345678". Both sections have dropdown menus for "Campus" (set to "Campus B") and "Address" (set to "206, Building No.1"). At the bottom is a "Send Now" button and a copyright notice: "Copyright © 2023 Campus Express".

Page: Send package successful

This page is shown after the user successfully send a package, and display the name and phone number of the pickup courier in this page.

When user clicks the send again button, they will be redirected to the send package page.

When user clicks the my packages button, they will be redirected to the my packages page.

The page title is "Send Successful". It displays the message "Your package will be picked up by:" followed by the courier's name and phone number. Below this are two buttons: "Send Again" and "My Packages". At the bottom is a copyright notice: "Copyright © 2023 Campus Express".

Page: Send package failed

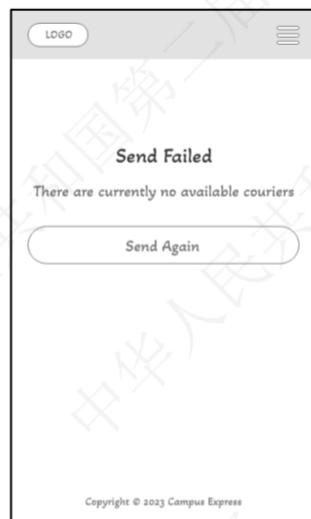
This page is displayed when the user's package sending fails because there are no online couriers available to pick up from the from-campus.

When user clicks the send again button, they will be redirected to the send package page.



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Page: My packages

User need to be signed in to access this page, if the user is not signed in and tries to access this page, they will be redirected to the sign in page.

See a list of packages sent by me. For each package, the following is shown:

- Tracking Number
- From address and from campus
- To address and to campus
- Recipient infomation(name and phone number)
- Package status
- Package send time (Format: YYYY-MM-DD HH:mm)
- Track button
 - If the user clicks the button, they will be redirected to the tracking package page and can track the corresponding package
- Return button
 - If the user clicks the button, this package will be returned.
 - If this package is already in the process of returning, the button should be disabled, and the button text as: "Returing...".
 - If this package has already been signed, the button should be disabled, and the button text as: "Already signed".



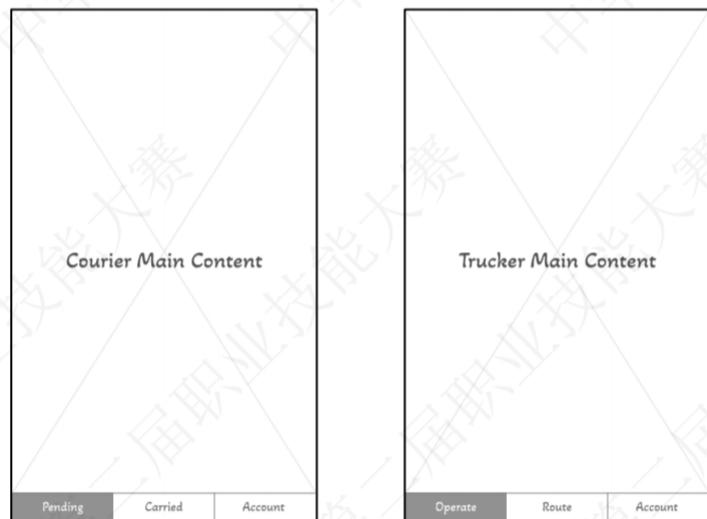
Staff platform:

Staff platform is a web application similar to a mobile app, with a bottom navigation bar used for switching between different functional pages.

Both courier and trucker have three functional pages:

Courier: Pending, Carried, Account.

Trucker: Operate, Route, Account.





Page: Staff Sign in

Here the staff can enter their email and password to sign in.

Staff can enter this page via the path "/XX_Module_B/staff".

If the staff is already signed in as a courier or a trucker and tries to access this page, they are redirected to the their first page (Courier's first page is Pending page, Trucker's first page is Operate page).

If any input is invalid, a message will be shown.

If the sign in is successful, they are redirected to the initial landing page (Courier's initial landing page is Pending page, Trucker's initial landing page is Operate page).

Courier Page: Pending

When the courier sign in, they will be directed to this page as their initial landing page.

This page has two subpages that can be switched using tabs: the "Pending pickup" packages list page and the "Pending delivery" packages list page.

The functionality of pending pickup page includes:

- See a list of pending pickup packages. For each package, the following is shown:
 - Tracking Number
 - From address and from campus
 - To address and to campus
 - Sender information (name and phone number)
 - Checkbox for select
- Select All: Courier can select/deselect all packages in the list.
- Number of selected packages
- Pickup button: Courier can pickup selected packages in the list.

Pending pickup		Pending delivery
<input checked="" type="checkbox"/>	No.: CEA820240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Sender: User's name, Phone Number	
<input checked="" type="checkbox"/>	No.: CEA820240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Sender: Mia Martin, 12345678	
<input type="checkbox"/>	No.: CEA820240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Sender: Thomas Clark, 12345678	
<input type="checkbox"/> Select All Selected: 2 <input type="button" value="Pickup"/>		
<input type="button" value="Pending"/>		<input type="button" value="Carried"/> <input type="button" value="Account"/>

The functionality of pending delivery page includes:

- See a list of pending delivery packages. For each package, the following is shown:
 - Tracking Number
 - From address and from campus
 - To address and to campus
 - Recipient information(name and phone number)
 - Checkbox for select
- Select All: Courier can select/deselect all packages in the list.
- Number of selected packages
- Carry button: Courier can carry selected packages in the list.

Pending pickup		Pending delivery
<input checked="" type="checkbox"/>	No.: CEA820240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Recipient: Name, Phone Number	
<input checked="" type="checkbox"/>	No.: CEA820240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Recipient: John, 12345678	
<input type="checkbox"/>	No.: CEA820240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Recipient: Robert, 12345678	
<input type="checkbox"/> Select All Selected: 2 <input type="button" value="Carry"/>		
<input type="button" value="Pending"/>		<input type="button" value="Carried"/> <input type="button" value="Account"/>

Courier Page: Carried

The courier can enter to this page via bottom navigation bar after signed in.

This page has two subpages that can be switched using tabs: the "Picked up" packages list page and the "Delivering" packages list page.



The functionality of picked up page includes:

- See a list of picked up packages. For each package, the following is shown:
 - Tracking Number
 - From address and from campus
 - To address and to campus
 - Sender information(name and phone number)
 - Checkbox for select
- Select All: Courier can select/deselect all packages in the list.
- Number of selected packages
- Pack button: Courier can pack selected packages into containers.

Picked up	Delivering	
<p>No.: CEAB20240101003 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Sender: User's name, Phone Number</p> <input checked="" type="checkbox"/>		
<p>No.: CEAB20240101001 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Sender: User's name, Phone Number</p> <input checked="" type="checkbox"/>		
<p>No.: CEAB20240101002 From: 301, Building No.5 ,Campus A To: 206, Building No.1 ,Campus B Sender: User's name, Phone Number</p> <input type="checkbox"/>		
<p><input type="checkbox"/> Select All Selected: 2 <input type="button" value="Pack"/></p>		
<input type="button" value="Pending"/>	<input type="button" value="Carried"/>	<input type="button" value="Account"/>

The functionality of delivering page includes:

- See a list of delivering packages. For each package, the following is shown:
 - Tracking Number
 - From address and from campus
 - To address and to campus
 - Recipient information(name and phone number)
 - Slide to delivered the package component(The template only provides the HTML structure of this element, and you need to implement the function.)



Courier Page: Account

The courier can enter to this page via bottom navigation bar after signed in.

This page has two subpages that can be switched using tabs: the "My delivered" packages list page and the "My information" page.

The functionality of my information page includes:

- On this page, the following is shown:
 - Courier's name(First name + Last name) and email
 - Phone Number
 - Online Status: This is a toggle button (has already been implemented).
 - Affiliated Campus
 - Number of Remaining Capacity
 - Number of total picked packages
 - Number of total delivered packages
- Logout button: The staff can logout by clicking this element, and they will be redirected to the sign in page.





The functionality of my delivered page includes:

- See a list of my delivered packages. For each package, the following is shown:

- Tracking Number
- From address and from campus
- To address and to campus
- Sender information(name and phone number)
- Recipient information(name and phone number)
- Delivered Time (Format: YYYY-MM-DD HH:mm)

My information	My delivered	
No.: CEA820240101001 From: 301, Building No.5, Campus A To: 206, Building No.1, Campus B Sender: User's name, Phone Number Recipient: Name, Phone Number Delivered Time: 2024-01-03 00:00	No.: CEA820240101002 From: 301, Building No.5, Campus A To: 206, Building No.1, Campus B Sender: Joseph Davis, 12345678 Recipient: John, 12345678 Delivered Time: 2024-01-03 00:00	
Pending	Carried	Account

Trucker Page: Operate

When the trucker sign in, they will be directed to this page as their initial landing page.

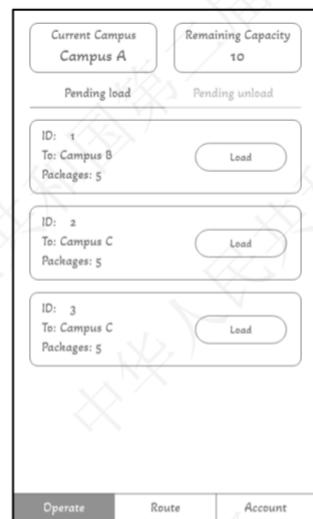
This page displays the "Current Campus" and "Remaining Capacity" information.

The number of remaining capacity will change with the number of packages in the loaded and unloaded containers.

This page has two subpages that can be switched using the tabs: "Pending load" containers list and the "Pending unload" containers list.

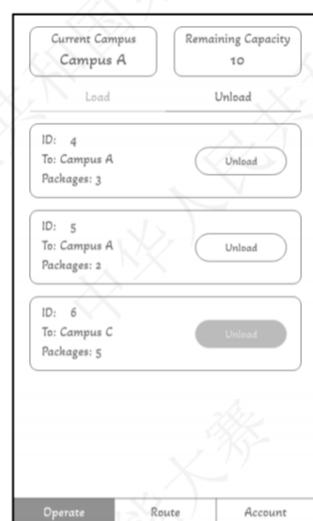
The functionality of pending load list includes:

- See a list of pending load containers at the current campus. For each container, the following is shown:
 - Container ID
 - To campus
 - Number of packages in the container.
 - Load button: Clicking the button will load the container.



The functionality of pending unload list includes:

- See a list of containers currently loaded by the current trucker. Containers that can be unloaded should be displayed at the front as a priority. The "Unload" button for containers that cannot be unloaded should be disabled. For each container, the following is shown:
 - Container ID
 - To campus
 - Number of packages in the container.
 - Unload button: Clicking the button will unload the container loaded by the current trucker at the current campus.

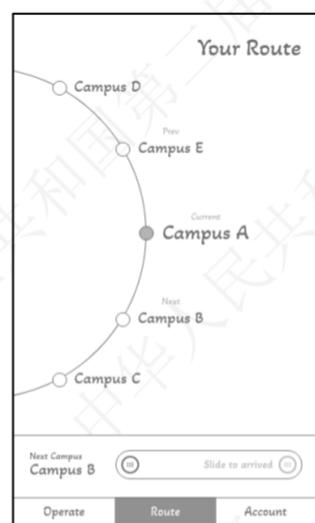


Trucker Page: Route

The trucker can enter to this page via bottom navigation bar after signed in.

This page displays detailed information about the current trucker's route.

The trucker can confirm to have arrived at the next campus by using the slide button at the bottom



Trucker Page: Account

The courier can enter to this page via bottom navigation bar after signed in.

This page has two subpages that can be switched using tabs: the "My truck" containers list page and the "My information" page.

The functionality of my truck page includes:

- See a list of containers in my truck. For each container, the following is shown:
 - ID
 - From campus
 - To campus
 - Number of packages
 - ">" is the container detail button: clicking to show the container's packages.
- In container's packages, each package shows:
 - Tracking Number
 - Sender's name and phone number
 - Recipient's name and phone number

The functionality of my information page includes:

- On this page, the following is shown:
 - Trucker's name(First name + last name) and email
 - Current Campus
 - Plate Number
 - Number of Remaining Capacity
 - Number of total unloaded containers
- Logout button: The staff can logout by clicking this element, and they will be redirected to the sign in page.

Name and Email Emilia Ray / fpointer@campusexp.com	Current campus Campus A	Plate Number ABC1234
Remaining Capacity 10	Total Unloaded 30	

Logout

Instructions to the Competitor:

- You should consider the quality of code.



- The media files are available in the ZIP file. You need to use the template provided in the material to make the function, allowing some modifications to improve the interactive experience.
- When implementing this project, you should strive to enhance the user experience as much as possible. For instance, when users perform actions that involve making changes to data, there should be corresponding correct or error messages to provide feedback.
- Path: "{your_server_address}/XX_Module_B" for client platform.
- Path: "{your_server_address}/XX_Module_B/staff" for staff platform.
- The XX is your station number, sample: 01, 02, ..., 10,11, ...