

UNIVERSITY OF THE AEGEAN SCHOOL OF SCIENCE DEPARTMENT OF INFORMATION & COMMUNICATION SYSTEMS ENGINEERING

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Course: Human-Computer Interaction

Student: Ioannis Markou

Assignment: CO₂ Emissions Calculator (phase 2)

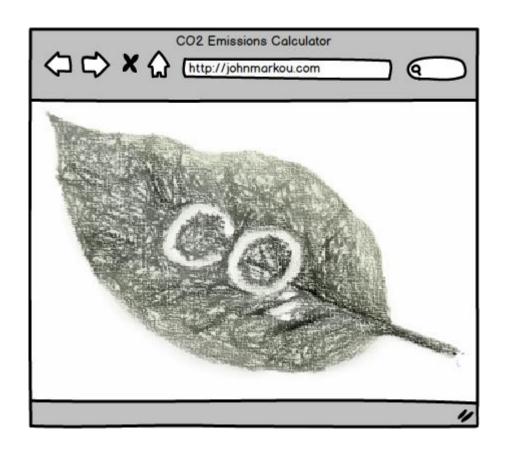
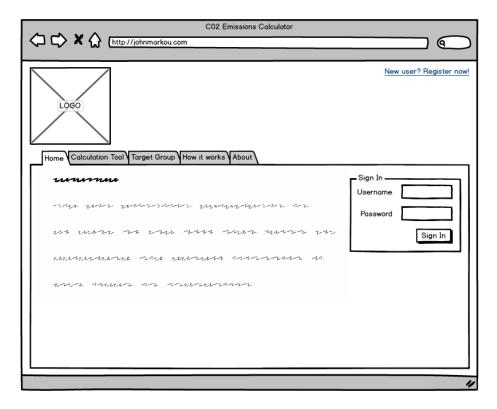


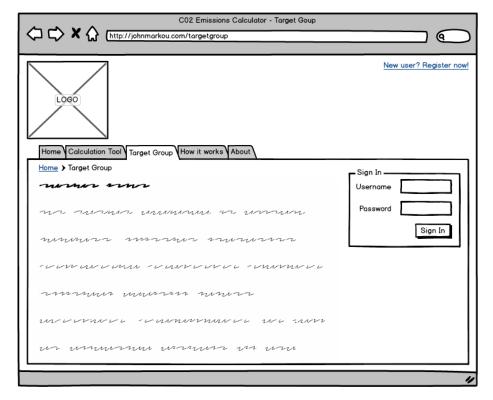
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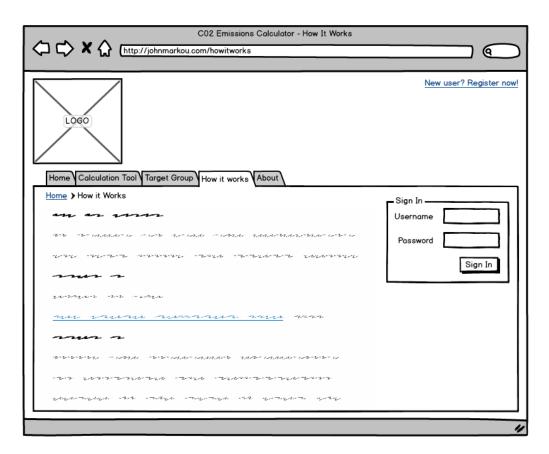
WEBSITE WIREFRAMES



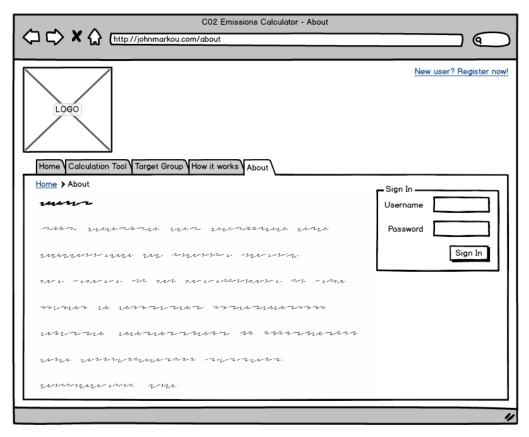
Mockup 1 Home page, when visiting as a guest



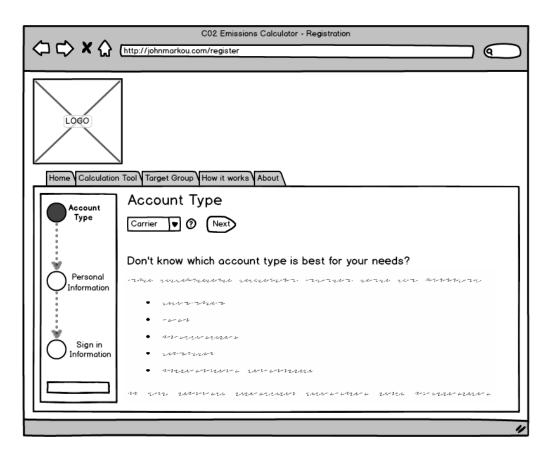
Mockup 2 The target group page



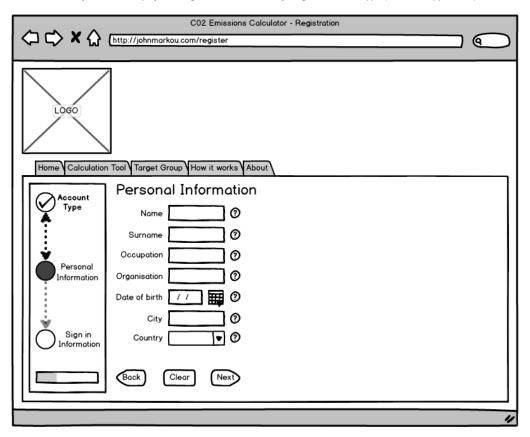
Mockup 3 Instructions on how to use the calculation tool



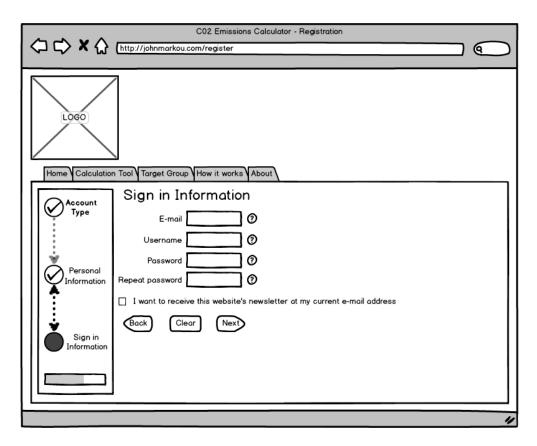
Mockup 4 Information about the tool creator



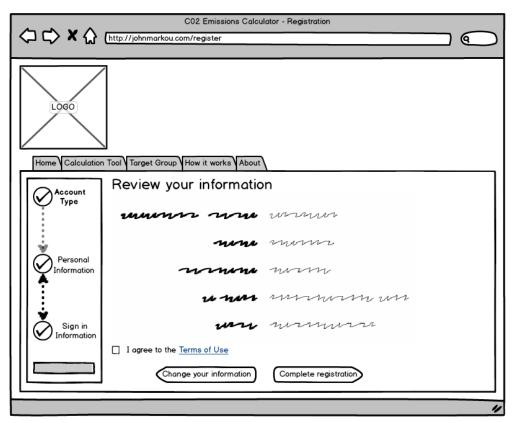
Mockup 5 The 1st step of user registration includes defining the account type (carrier, shipper, etc.)



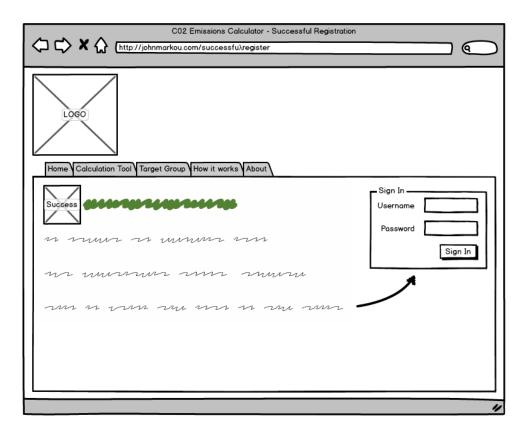
 $\textbf{\textit{Mockup 6}} \ \textit{The 2}^{\textit{nd}} \ \textit{step of user registration includes filling the user's personal information}$



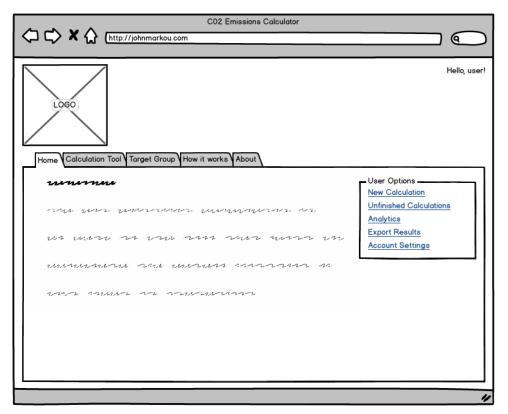
Mockup 7 The 3rd step of user registration includes setting an email and password for logging in to the website



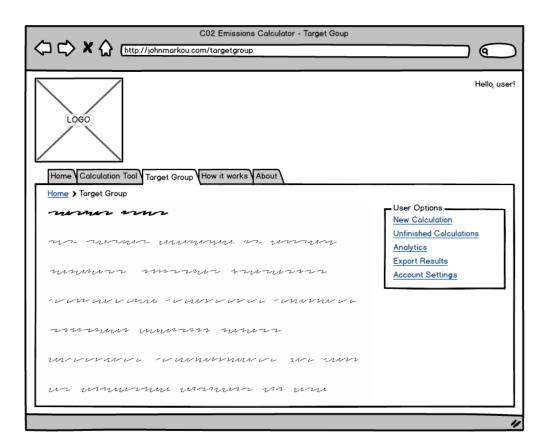
Mockup 8 The last step of user registration includes a review of submitted information as well as accepting the terms of use



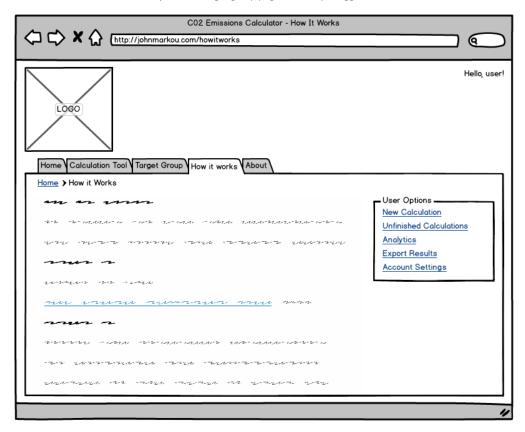
Mockup 9 After successful registration, the user is redirected to a page with a success message



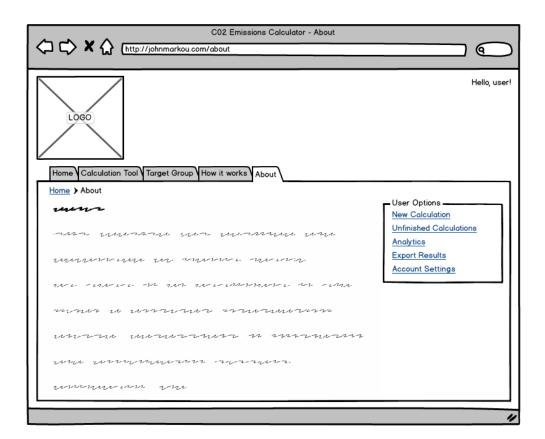
 $\textbf{\textit{Mockup 10}} \ \ \textit{The home page when a user Is logged in}$



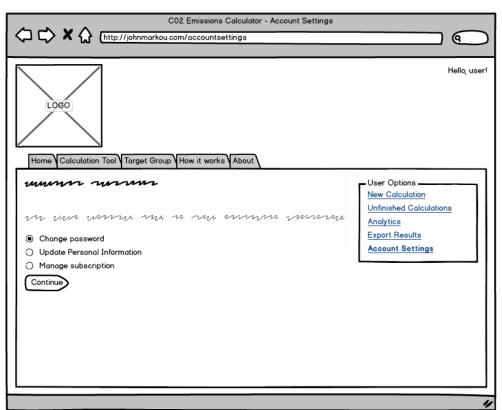
Mockup 11 The target group page, visited by a logged-in user



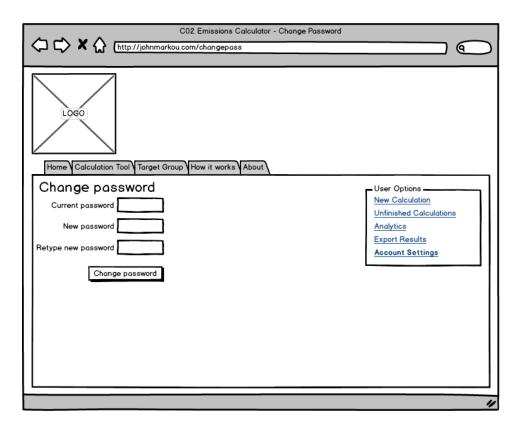
Mockup 12 The "How it works" page visited by a logged-in user



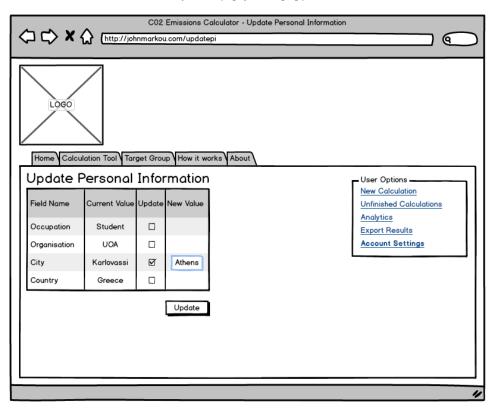
Mockup 13 The"About" page visited by a logged-in user



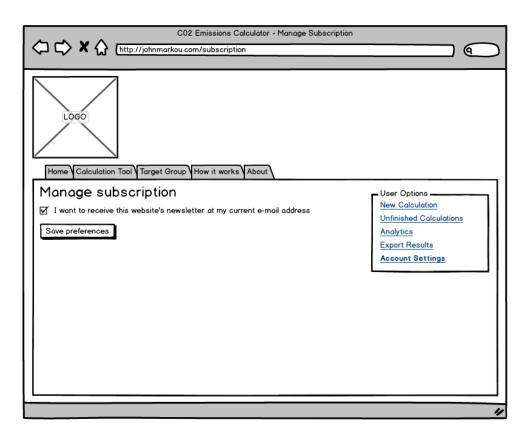
Mockup 14 The account settings page



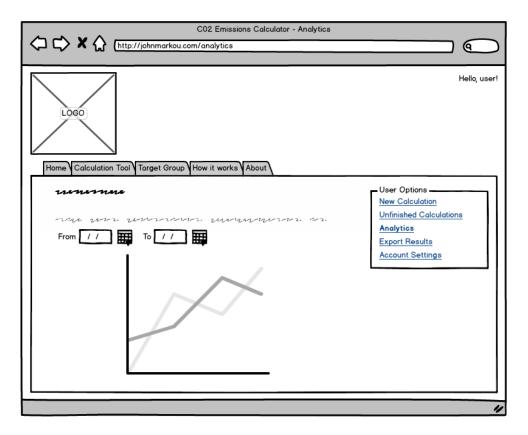
Mockup 15 The page for changing password



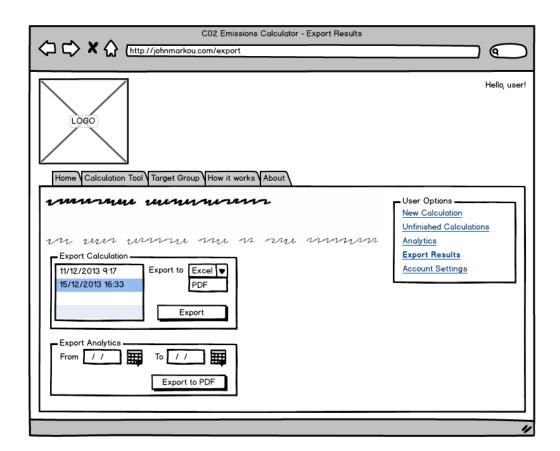
 $\textbf{\textit{Mockup 16}} \ \ \textit{The page for updating the user's personal information}$



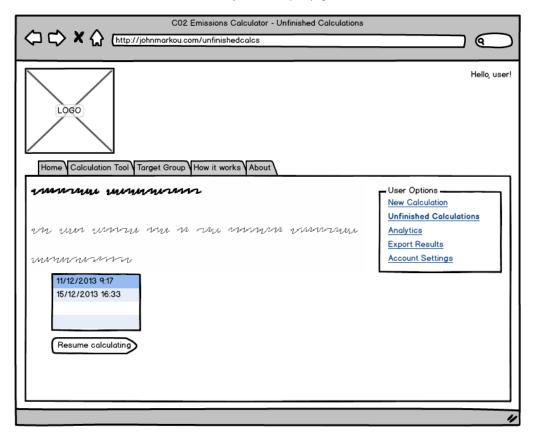
Mockup 17 The page for changing e-mail subscription settings



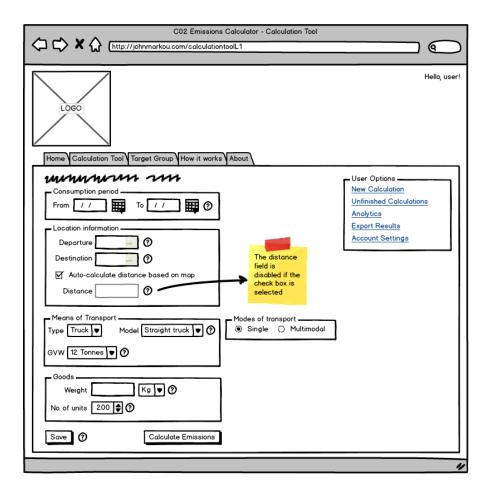
Mockup 18 Analytics page, showing visualisations of calculated data



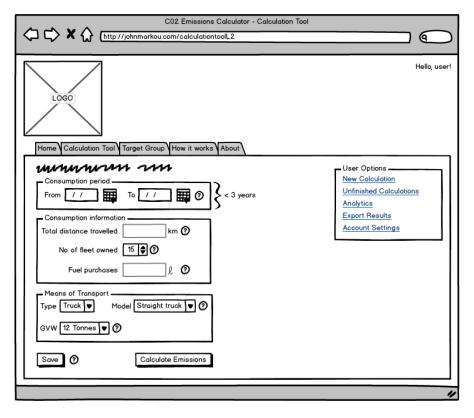
Mockup 19 Data export page



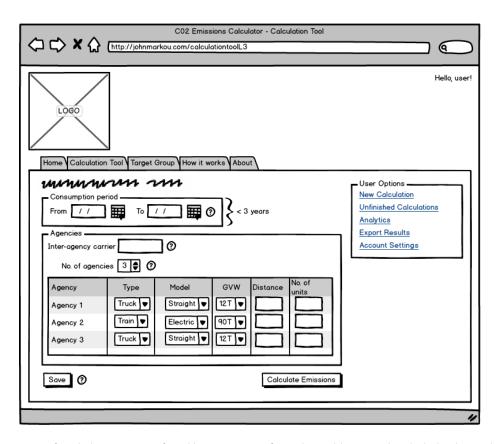
Mockup 20 Page containing unfinished calculations



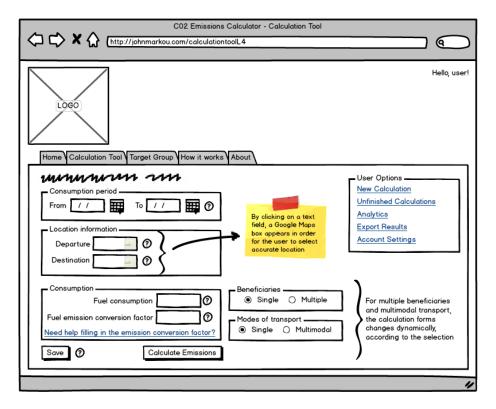
Mockup 21 Page for calculating emissions for civillians (Level 1)



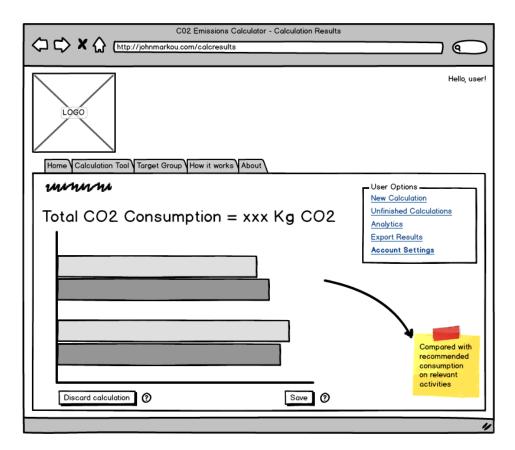
Mockup 22 Page for calculating emissions for shippers and non-governmental organisations (Level 2)



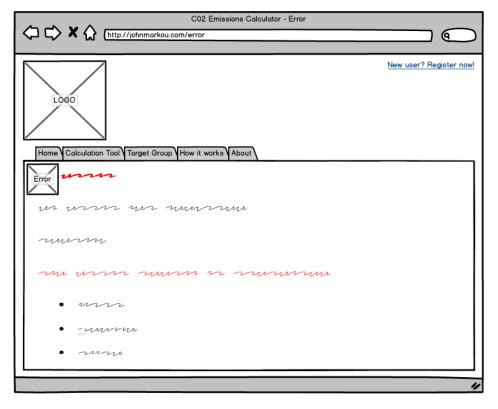
Mockup 23 Page for calculating emissions for public services, , 3PL, forwarders and shippers with multiple distribution channels (Level 3)



Mockup 24 Page for calculating emissions for carriers (Level 4)



Mockup 25 Page displaying calculation results for all categories (Levels 1, 2, 3, 4)

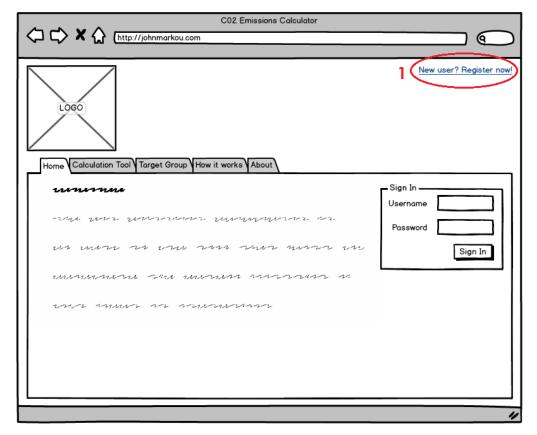


Mockup 26 Error page, showing a different error message and solutions depending on the error

STORYBOARDING

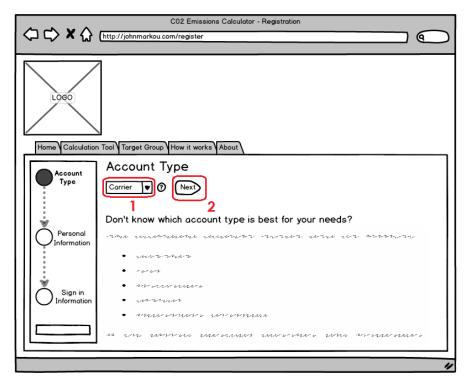
This scenario describes:

- The process of registering a guest as a Carrier
- The user logging in to the page
- Calculating CO₂ emissions for a specific time period for that user (Level 4 Energy based)
- Showing results



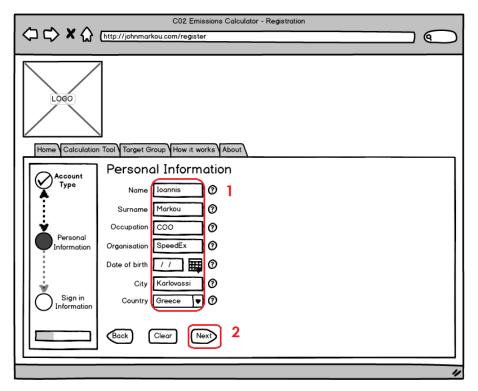
Panel 1 Selecting the registration link

1. The page visitor selects the link that points to the registration page



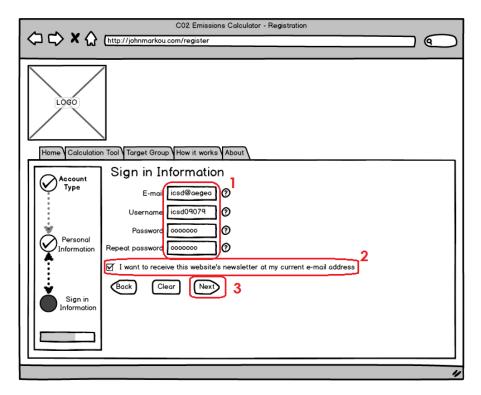
Panel 2 Selecting account type

- 1. The guest selects the **Carrier** account type
- 2. The guest selects **Next** to proceed to the next step of the registration process



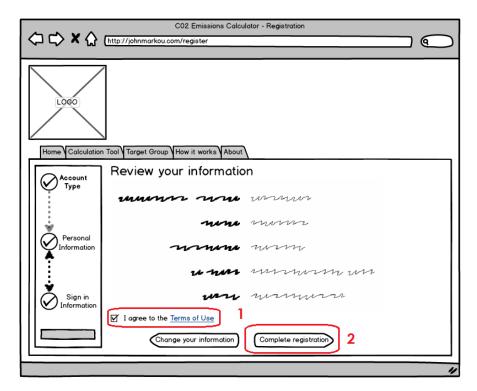
Panel 3 Input of personal information

- 1. The guest inputs personal information
- 2. The guest selects **Next** to proceed to the next step of the registration process



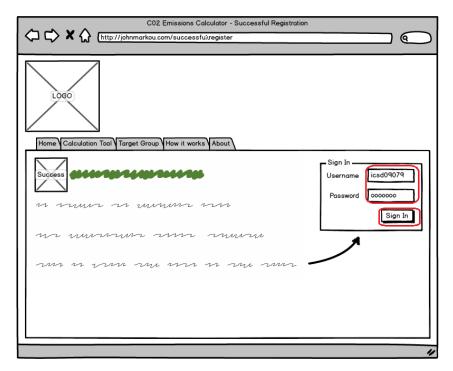
Panel 4 Input of sign-in information

- 1. The guest inputs sign-in-related information
- 2. The guest selects to subsribe to the page's newsletter
- 3. The guest proceeds to the next step of the registration process



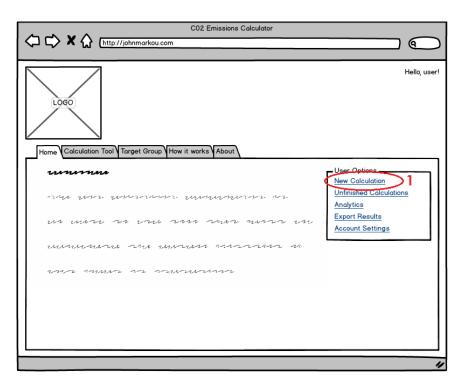
Panel 5 Review of information and completion of the registration process

- 1. The guest checks that all information is correct and accepts the terms of use
- 2. The guest selects Complete registration



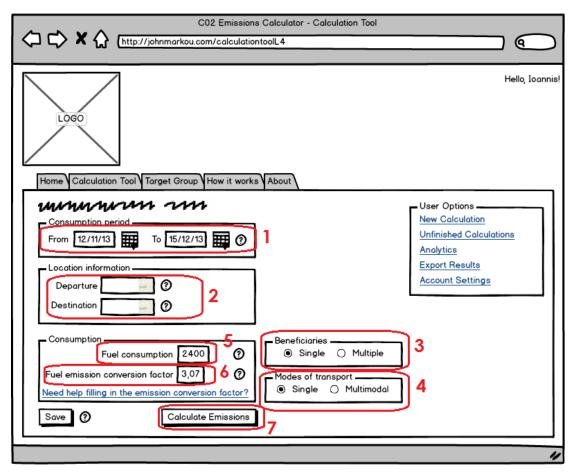
Panel 6 Success message and signing-in

- 1. The user is informed that the registration process has been completed successfully. Then the user enters his/her username and password in the corresponding fields
- 2. The user selects **Sign In** for authenticating the user credentials and logging in to the system



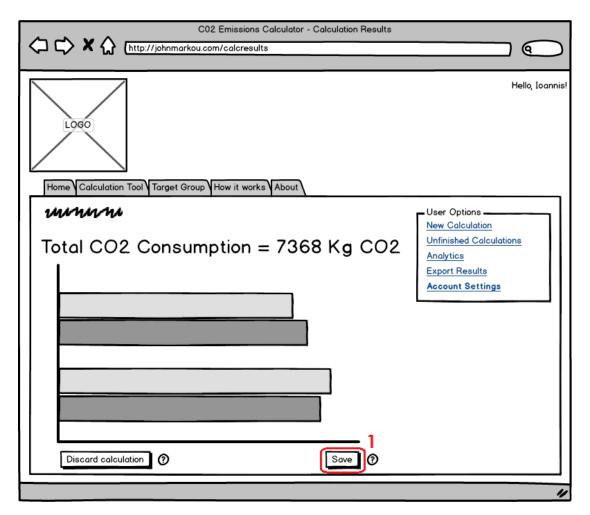
Panel 7 Selection of new calculation

1. After the user has logged in, he/she chooses to start a new calculation



Panel 8 Filling in calculation fields

- 1. At first, the user enters a consumption period that corresponds to the consumption to be calculated
- 2. Location information is only filled in if only a single trip is made at the defined consumption period (this is made clear in the corresponding question mark that the user can "mouse-over"
 - When the user selects each of the location fields (departure, destination), a Google Maps window appears and the user can select the exact point of departure/destination
- 3. The user selects a single beneficiery (transferring products for a single provider/client)
- 4. The trip includes a single mode of transport so the user specifies that
- 5. The user fills the fuel consumption field, as it is accurately calculated by the carrier, based on the vehicle load, empty trips, etc.
- 6. The user fills the fuel emission conversion factor field, as it is documented by the vehicle carrier
- 7. The user selects the button for calculating emissions



Panel 9 Calculation results page

1. The user sees the consumption results and selects to save the calculation, so it can later be included in the visualisations in the **Analytics** page.