



Datative

User Manual

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1. What is Datative?

Datative is a web-based analytics tool. This tool is a rich, powerful analytics tool which allows users to create interactive, personalised dashboards which can be exported as a PDF report. It provides the user numerous ways to intuitively visualise and represent their data. The user uploads a file to the application, where it is processed, cleaned and stored as a table in the database. The user can then perform analytics on the data in this table to gain interesting insights into their data. As the dataset is stored in the application, the user can create dashboards using datasets they have already uploaded to the application. The application also stores all generated PDF reports and allows users to download their previously generated reports.

2. Installation

2.1 Install Locally

To install Datative locally, please carry out the following steps.

1. Clone the gitlab repository, located at:

```
https://gitlab.com/computing.dcu.ie/boylec36/2020-ca400-boylec36-mcgivee3.git
```

2. Navigate to the directory:

```
2020-ca400-boylec36-mcgivee3/src/datative
```

3. Run the following command:

```
mvn spring-boot:run
```

Navigate to <http://127.0.0.1:8000> to use the application.

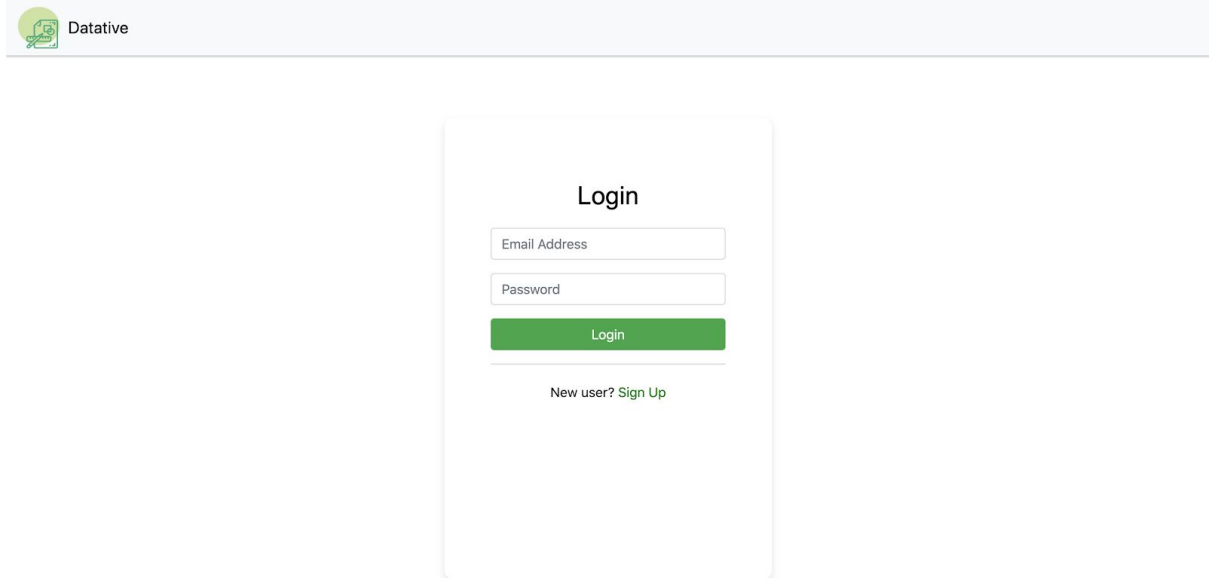
2.2 Access the hosted application

The application is hosted on Google App Engine. Please visit:

<http://datative.appspot.com/login>

2. Starting the application

To start the application, please visit <http://datative.appspot.com/login>. You will be met with the login page. On this page, you can login to the application, or click the link to be brought to the registration page where you can create an account (Fig. 1).



The image shows a web browser window displaying the login page of an application named 'Datative'. The header is light blue with the 'Datative' logo and name on the left. The main content area is white and contains a 'Login' form. The form has a title 'Login' at the top. Below the title are two input fields: 'Email Address' and 'Password'. A green button labeled 'Login' is positioned below the password field. At the bottom of the form, there is a link that says 'New user? Sign Up'.

Figure 1: Application Login

3. Login

To log in to the application, you must have previously registered an account.

3.1 Register a new user

1. Click on the “Sign Up” link located below the login form which will bring you to the registration page (Fig. 2).
2. Enter all required details on the form. Please ensure that both passwords match.
3. If registration is successful, an alert box will appear stating that you have been successfully registered (Fig. 3).
4. Return to the login page and log in to the application with your details.

Registration

Already registered? [Login](#)

Figure 2: Registration

Registration

You have successfully registered on datative!

Already registered? [Login](#)

Figure 3: Successful Registration

3.2 Login with existing details

If you are a user who has previously registered an account on the application, you can log in using your details using the form on the home page (Fig. 4).

1. Enter your email address and password into the Login form
2. Click on the login button. You will be logged into your account.
3. If your details are incorrect, an alert will appear stating that the username and password combination is incorrect (Fig. 5).

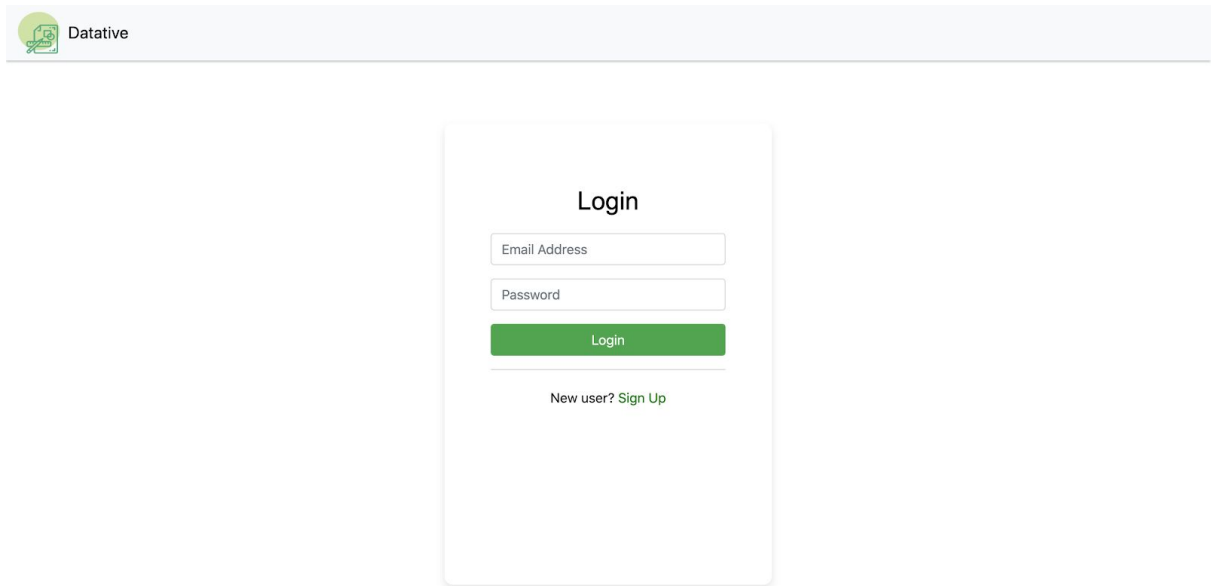
The image shows a web application header with a green circular logo containing a magnifying glass and the word "Datative" in a sans-serif font. Below the header is a light gray horizontal bar. Centered below this bar is a white rectangular login form with rounded corners and a subtle drop shadow. The form is titled "Login" in a bold, black, sans-serif font. Below the title are two input fields: "Email Address" and "Password", both with light gray borders and placeholder text. Below these fields is a solid green button with the word "Login" in white, sans-serif font. At the bottom of the form, there is a link that reads "New user? Sign Up" in a small, green, sans-serif font.

Figure 4: Login

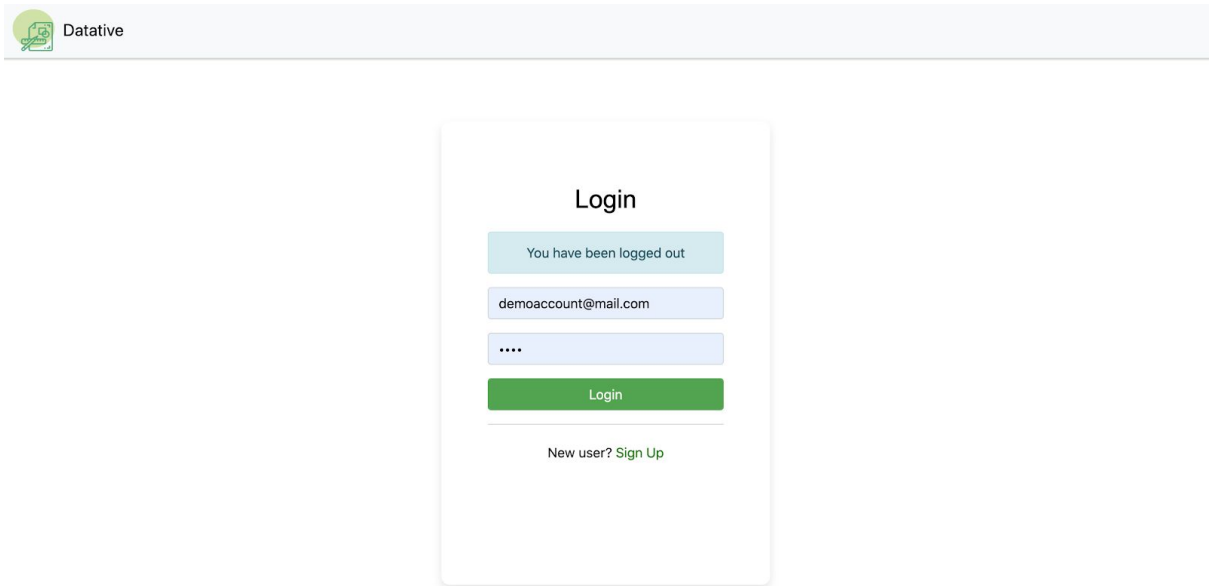


Figure 5: Incorrect Username or Password

4. Navigating the homepage

Once you have logged in, you will be directed to the application homepage. On this page, you can upload a new dataset or view your profile (Fig. 6).

1. To upload a dataset, click on the “Upload File” button on the “Upload a Dataset” card, or click the Upload button in the navigation bar at the top of the page.
2. To view your profile, click on the “View Profile” button in the “View Your Profile” card, or click the “Profile” button in the navigation bar at the top of the page.

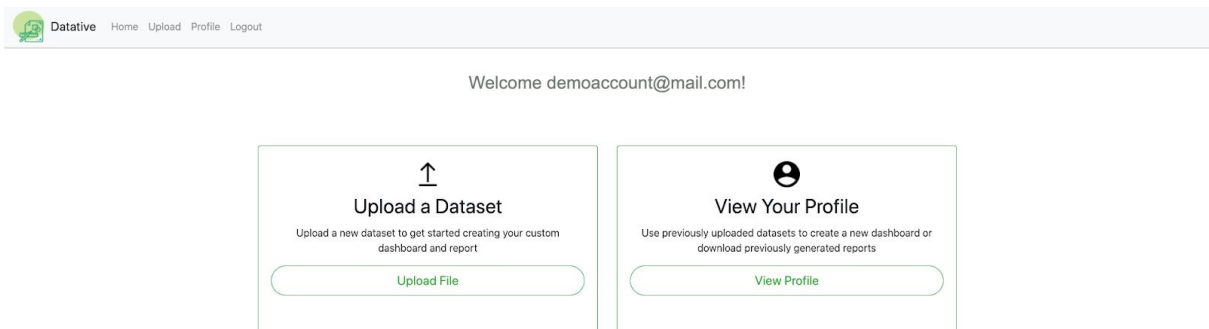
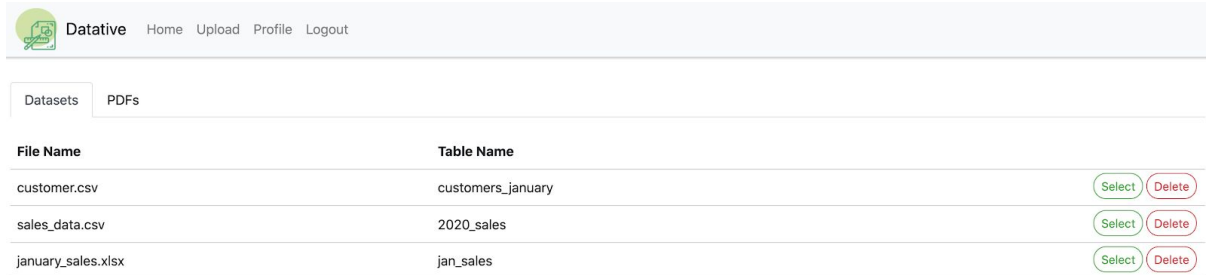


Figure 6: Homepage

5. View your profile

1. Click on the “View Profile” or “Profile” button to visit your profile.
2. You will be brought to your profile page (Fig. 7).
3. On this page, you can view your previously uploaded datasets under the “Datasets” tab and your previously generated PDF documents under the “PDFs” tab.



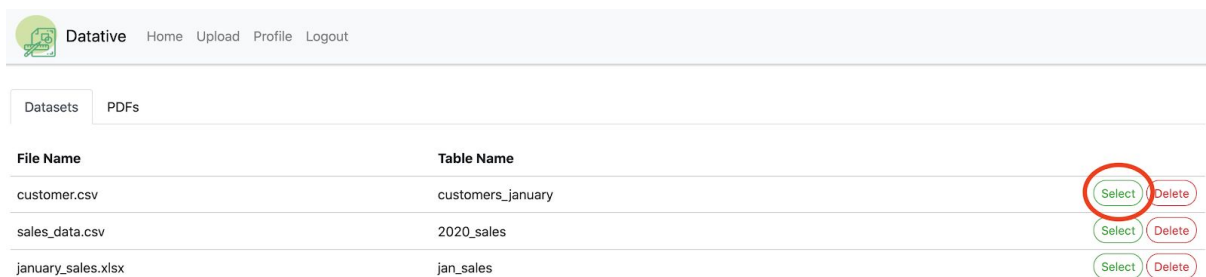
The screenshot shows the Datative profile page. At the top, there is a navigation bar with the Datative logo and links for Home, Upload, Profile, and Logout. Below this, there are two tabs: 'Datasets' and 'PDFs'. The 'Datasets' tab is active. The main content area displays a table with three columns: 'File Name', 'Table Name', and two action buttons ('Select' and 'Delete'). The table lists three datasets: 'customer.csv' (mapped to 'customers_january'), 'sales_data.csv' (mapped to '2020_sales'), and 'january_sales.xlsx' (mapped to 'jan_sales'). Each row has a green 'Select' button and a red 'Delete' button.

File Name	Table Name		
customer.csv	customers_january	Select	Delete
sales_data.csv	2020_sales	Select	Delete
january_sales.xlsx	jan_sales	Select	Delete

Figure 7: Profile

6. Create Dashboard from a previously uploaded dataset

1. Navigate to the “Datasets” tab on your profile page.
2. Click on the “Select” button next to the dataset you would like to create a dashboard with (Fig. 8).
3. You will be brought to the dashboard page where you can create your new dashboard.




This screenshot is identical to Figure 7, showing the 'Datasets' tab. However, the 'Select' button for the first dataset, 'customer.csv', is circled in red to indicate it should be clicked.

File Name	Table Name		
customer.csv	customers_january	Select	Delete
sales_data.csv	2020_sales	Select	Delete
january_sales.xlsx	jan_sales	Select	Delete

Figure 8: Select Dataset

7. Delete a previously uploaded dataset

1. Navigate to the “Datasets” tab on your profile page.
2. Click on the “Delete” button next to the dataset you would like to remove from your account on the application (Fig. 9).
3. The dataset table and details will be removed. This cannot be undone.



Dative

[Home](#)[Upload](#)[Profile](#)[Logout](#)

Datasets


PDFs

File Name	Table Name		
customer.csv	customers_january	Select	Delete
sales_data.csv	2020_sales	Select	Delete
january_sales.xlsx	jan_sales	Select	Delete

Figure 9: Select Dataset to delete

8. Download a previously generated PDF

1. Navigate to the “PDFs” tab on your profile page.
2. Click on the “Download” button next to the PDF you would like to download (Fig. 10).
3. The PDF will be downloaded to your machines local storage.



Dative

[Home](#) [Upload](#) [Profile](#) [Logout](#)

Datasets

PDFs

File Details

Employee Satisfaction Survey Report.pdf	14-05-2020 18:27:01	Download	Delete
January Sales.pdf	14-05-2020 18:26:25	Download	Delete
The Big Company 2020 Performance.pdf	14-05-2020 18:26:45	Download	Delete

Figure 10: PDFs Tab Download

9. Delete a previously generated PDF

4. Navigate to the “PDFs” tab on your profile page.
5. Click on the “Delete” button next to the PDF you would like to delete from your account (Fig. 11).
6. The PDF will be deleted. This cannot be undone.

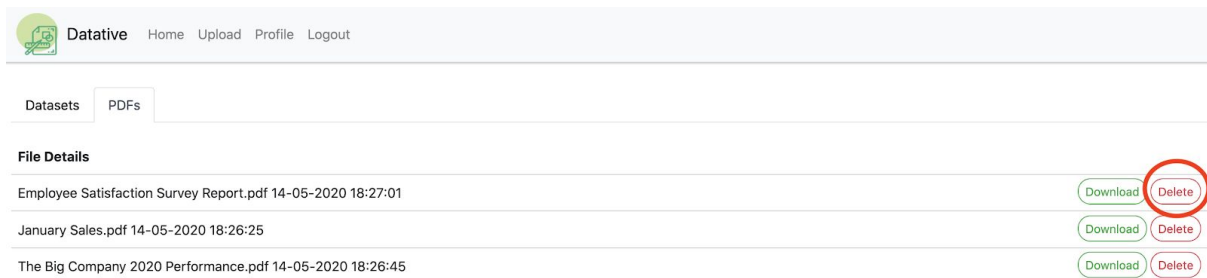



Figure 11: PDFs Tab Delete

10. Upload a dataset

When you click on the “Upload File” or “Upload” buttons, you will be brought to the upload page (Fig. 12). On this page is a form for uploading your dataset and entering your preferred table name.

1. Click on the “Choose file” button and choose the file you wish to upload from your local file system. Accepted file formats are .csv, .xls, .xlsx and .txt.
2. Enter a unique table name into the input box. The table name may not contain spaces or fullstops.
3. Click on the “submit” button to begin uploading your file. When the upload begins, you will see the loading icon running. Your dataset will now be processed and cleaned.
4. If your dataset cannot be uploaded, an alert appears stating that the upload failed.
5. If your chosen table name already exists, an alert will appear telling you that your table name could not be accepted.

 Datative

[Home](#) [Upload](#) [Profile](#) [Logout](#)

Upload File

Upload a new file to begin creating your new dashboard.
Accepted File Types: .csv, .xls, .xlsx, .txt

Choose file

 No file chosen

Enter unique table name
Name cannot contain spaces and fullstops. It may contain capital letters and underscores.

Table Name

Table Name

Submit

Figure 12: Upload

11. Add component to your dashboard

1. Choose component you would like to add in the dashboard sidebar (Fig. 13).
2. When modal appears, choose data to analyse and display in component and operation to be performed.
3. Click “Submit” button to create component.
4. Component will appear on the dashboard grid area.



Figure 13: Dashboard Sidebar

12. Move components around your dashboard

1. Click and hold down the left mouse button on the component you would like to move.
2. Drag the component to where you would like to place it on your dashboard area.
3. Release the left mouse button to place the component.

13. Resize components on your dashboard

Some components added to the dashboard can be resize. Hover over the component, and if resize handles appear in the bottom left and right corners, it can be resized.

1. Click and hold down the left mouse button on the resize arrow in the corner of the component you would like to resize (Fig. 14).
2. Drag the component corner in the direction you would like to resize it.
3. Release the left mouse button to stop resizing the component.

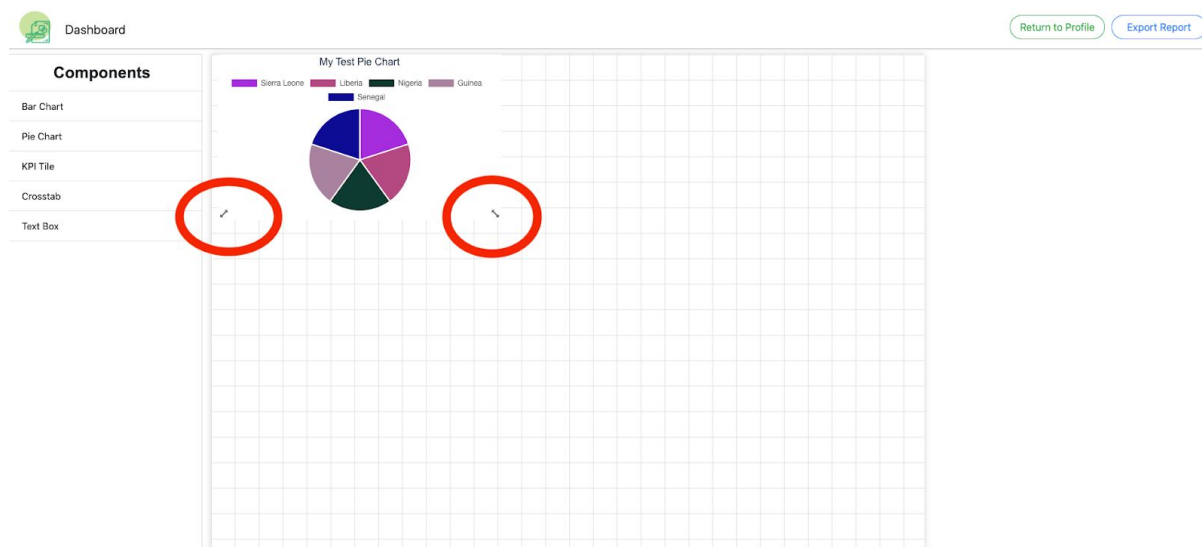


Figure 14: Resize Handles

14. Customise your components

1. Click on the component you would like to customise
2. A blue highlight border will appear around the selected component
3. The customisation sidebar will appear to the right of the screen (Fig. 15).
4. Choose options you would like to apply to your component.
5. To finish customising the component, click anywhere outside of the customisation sidebar

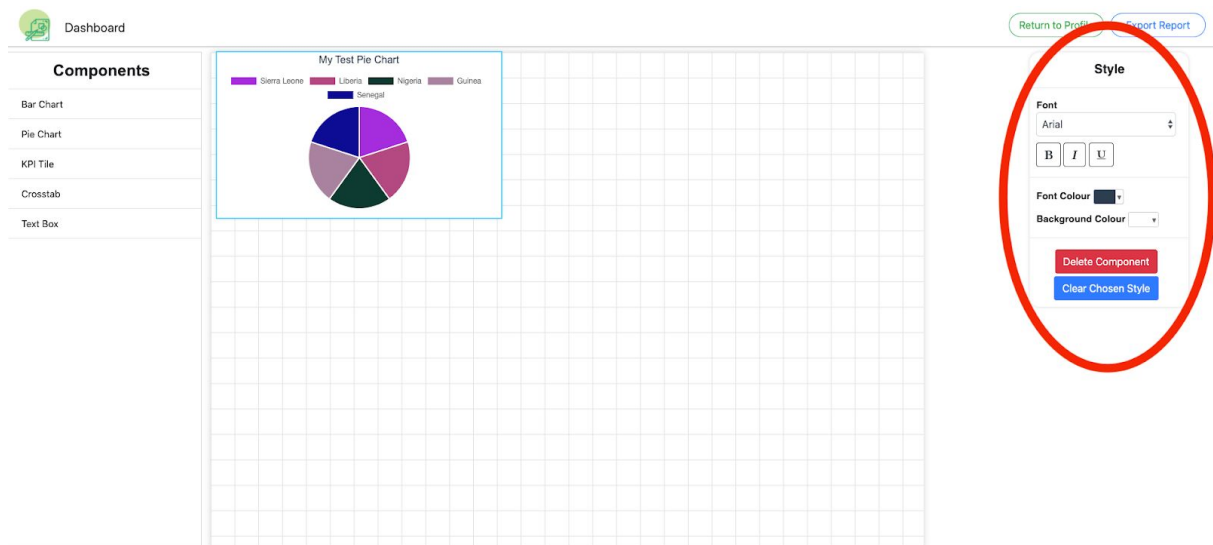


Figure 15: Customisation Sidebar

15. Clear current component customisation

1. Click on the component that you would like to clear the applied customisation
2. A blue highlight border will appear around the selected component
3. The customisation sidebar will appear to the right of the screen.
4. Click the "Clear Chosen Style Button". The component customisation settings will reset to default (Fig. 16).
5. Click anywhere outside of the customisation sidebar to close it.

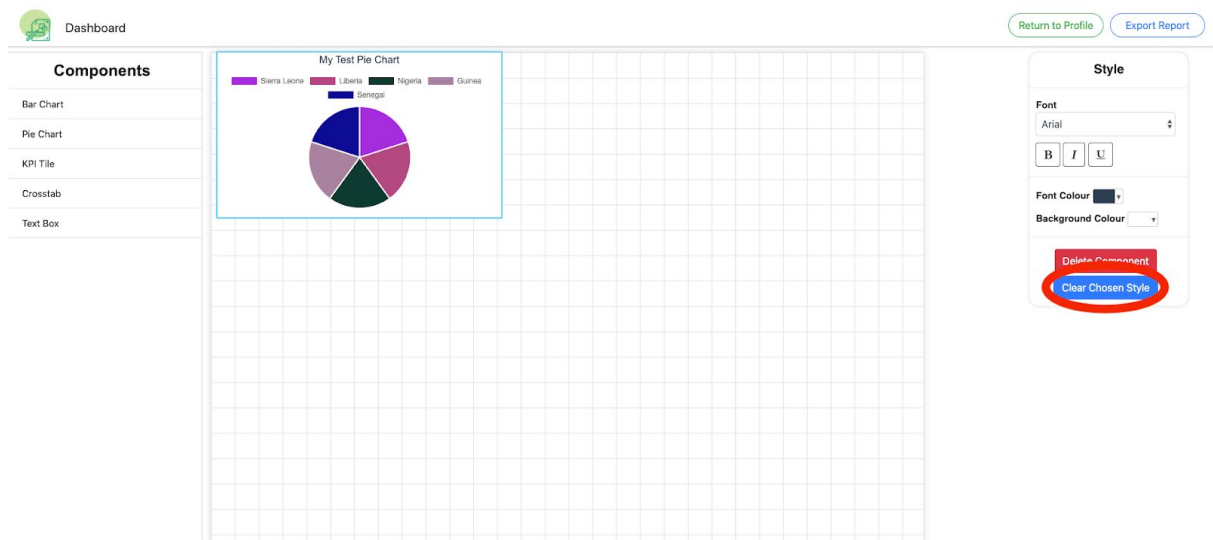


Figure 16: Clear Chosen Style

16. Delete a component

1. Click on the component that you would like to delete from the dashboard area
2. A blue highlight border will appear around the selected component
3. The customisation sidebar will appear to the right of the screen.
4. Click the “Delete Component”. The component will be removed from the dashboard and the customisation sidebar will automatically close (Fig. 17).

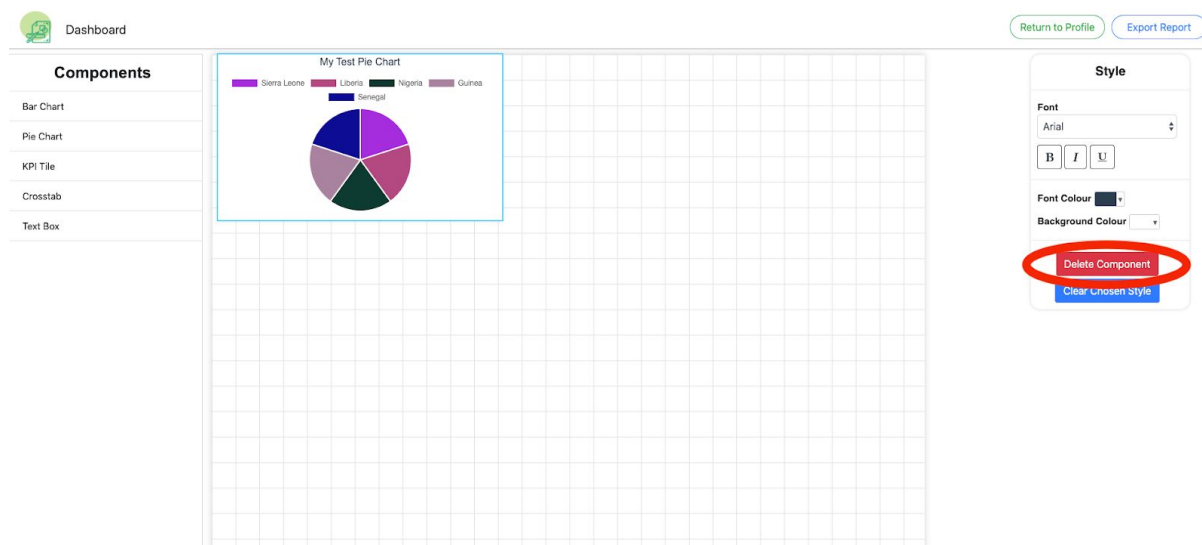


Figure 17: Delete Component

17. Export your PDF report

1. Click the “Export Report” button located in the top right corner of the dashboard page (Fig. 18).
2. A PDF copy of your dashboard area will be downloaded to your machines local storage.

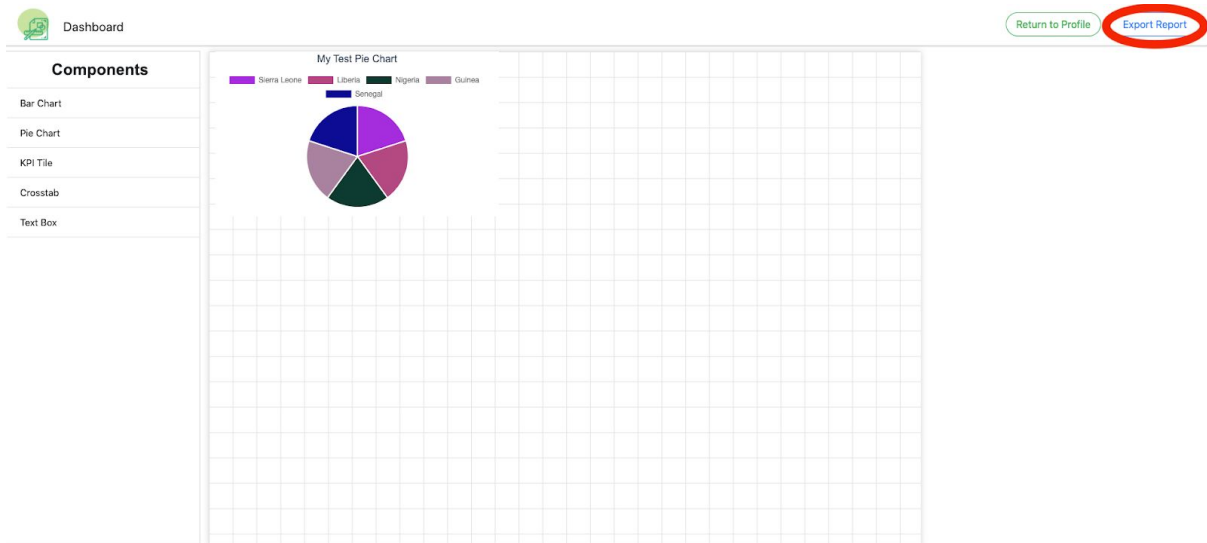


Figure 18: Export Report

18. Return to your profile

1. Click the “Return to Profile” button located in the top right corner of the dashboard page (Fig. 19).
2. You will be brought to your profile page.

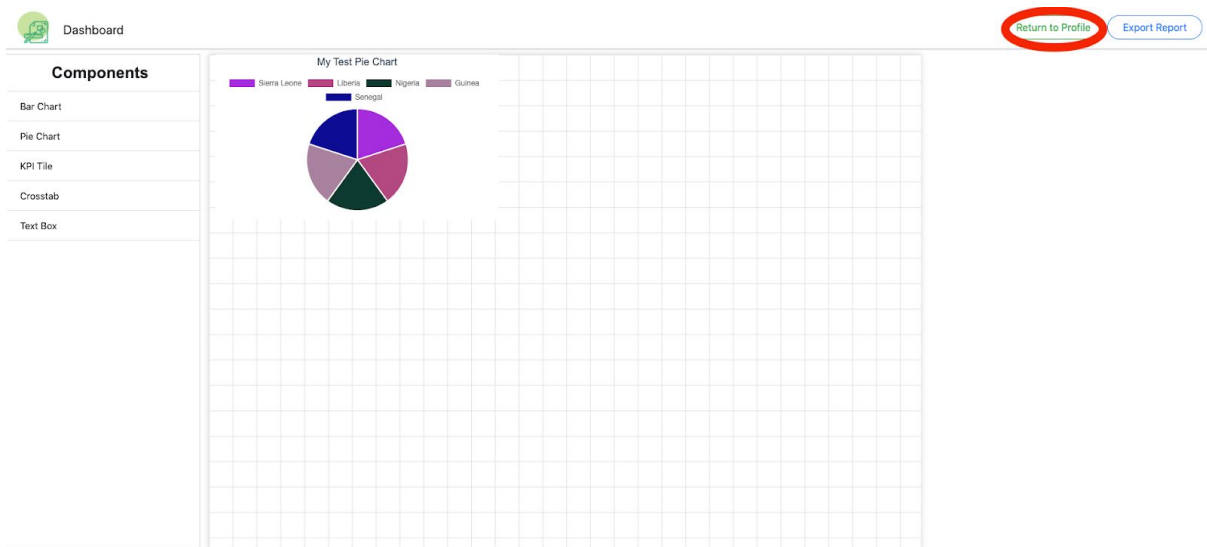
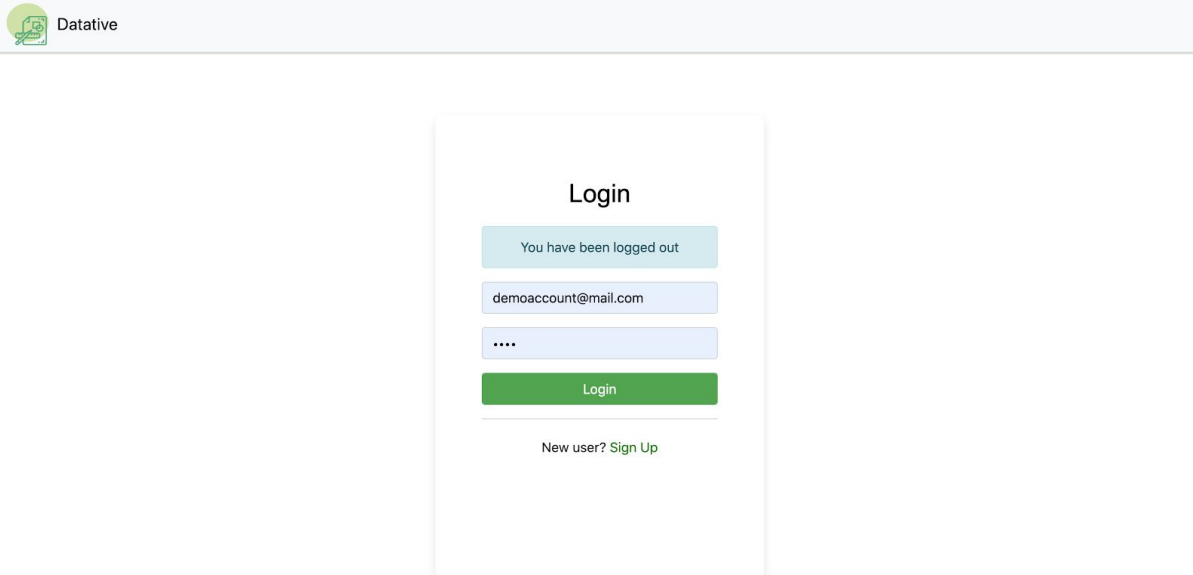


Figure 19: Return to Profile

19. Logout

Click the “Logout” button in the top navigation bar of the application. When you log out you will return to the start page where the login form is located (Fig. 20). You will see an alert which tells you that you have been logged out.



The screenshot shows the Datative application interface. At the top, there is a light gray navigation bar with the Datative logo (a green circle with a white 'd') and the text 'Datative'. Below the navigation bar, a central white card with rounded corners and a subtle shadow is displayed. The card is titled 'Login' in a bold, black font. Directly beneath the title is a light blue rectangular alert box containing the text 'You have been logged out'. Below the alert box are two input fields: the first contains the email address 'demoaccount@mail.com', and the second contains four dots '....' representing a password. A green rectangular button with the text 'Login' is positioned below the input fields. At the bottom of the card, the text 'New user? Sign Up' is displayed, with 'Sign Up' being a green hyperlink.

Figure 20: Logout