

Table 3. Routes & Controller Functions

Route	View Description (Flowchart ID)	Controller Function(s)
‘/login’	01, Figure 2	Login() allows the user to log in to the web app with an existing account, whereas Sign_Up() prompts the user to make one. Reset_Password() allows the user to reset their password.
‘/’	02, Figure 3	Display_Information(Chosen_Borough: str) shows the general canopy cover and open space area information for a chosen borough in minimal detail.
‘/settings’	03	Edit_User_Information() allows the user to add/update their information.
‘/sources’	04	Display_Canopy_Sources() and Display_OpenSpace_Sources() are used to present the references in a tabulated format with the corresponding data used from each source.
‘/summary_canopy’	05	Display_Canopy_Percent() displays the area and percentage cover of borough taken up by canopy cover, with the possible edition of common tree species.
‘/manage_canopy’	06, Figure 4	Get_Canopy_Recommendations():str will produce recommendations based on the canopy cover percentage of the borough and how it ranks with other boroughs. It will display tree species to plant for certain environments.
‘/compare_canopy’	07	Display_Canopy_Adjacent_Boroughs() and Display_Canopy_All_Boroughs() are used to compare the canopy covers in neighbouring and all boroughs of London respectively.
‘/summary_openspace’	08, Figure 5	Display_OpenSpace_All_Boroughs(Chosen_Borough: str) is used to show the percentage of open space area in the borough and other boroughs of London with the selected borough highlighted. Display_OpenSpace_Types_In_Borough(Greater London) is used to demonstrate the percentages of each open space type in all of London, with ‘Greater London’ used as a coded input.
‘/breakdown_openspace’	09	Display_OpenSpace_Types_In_Borough(Chosen_Borough: str) is used to show the breakdown of open space areas in a borough in percentage values.
‘/compare_openspace’	10	Display_OpenSpace_Type_All_Boroughs(OpenSpaceType: str) is used to compare a given open space type to all other boroughs in London
‘/manage_openspace’	11	Get_OpenSpace_Recommendations():str is used to produce recommendations of which open space type can

		be added based on the prevalence of that type existing in the borough compared to the London average. It can also use data from just neighbouring boroughs if needed.
‘/correlation’	12	Display_Correlation() produces a simple chart with a trendline and a correlation coefficient to showcase the relationship between canopy cover and the total open space area in all boroughs. This can be further modified to study the relationship between canopy cover and a selected open space area type.
‘/further_info’	13	Display_Greening_Firms() and Display_OpenSpace_Firms() are used to display a selected list of firms based globally or in London with a successful portfolio of projects relevant to either the selected open space area type(s) or landscaping/greening for canopy cover management.