

ElectroBits Elaboration Document

Solo Solar

Team Members:

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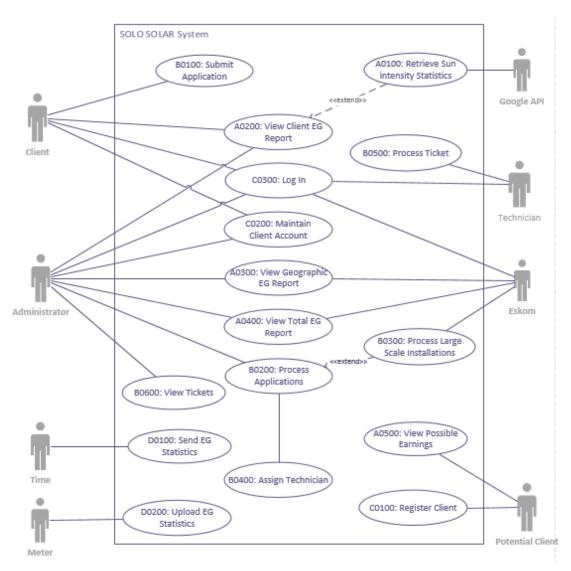
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1 FUNCTIONAL REQUIREMENTS

1.1 Analysis Use Case Model



1.2 Use Case Glossary and Responsibilities

Package Id: A Package Name: Report Package Team Member Responsible: Kevin				
Use Case Id	Use Case Name	Actors		
A0100	Retrieve Sun intensity Statistics	Google API		
Queries/Reports				
A0200	View Client EG Report	Client, Administrator		
A0300	View Geographic EG Report	Administrator		
A0400	View Total EG Report	Eskom, Administrator		
A0500	View Possible Earnings	Potential Client		

Package Id: B Package Name: Applications package				
Team Member Responsible: Ferdi				
Use Case Id	Use Case Name	Actors		
B0100	Submit Applications	Client,		
		Administrator		
B0200	Process Applications	Administrator,		
		Client		
B0300	Process Large Scale Installations	Eskom		
B0400	Assign Technician	Administrator		
B0500	Process Ticket	Technician		
Queries/Reports				
B0600	View Tickets	Administrator		

Package Id: C Package Name: Account package Team Member Responsible: F-Jay			
Use Case Id	Use Case Name	Actors	
C0100	Register Client	Potential,	
		Client	
C0200	Maintain Client Account	Client,	
		Administrator	
C0300	Log In	Client,	
		Administrator,	
		Eskom	
Queries/Reports			

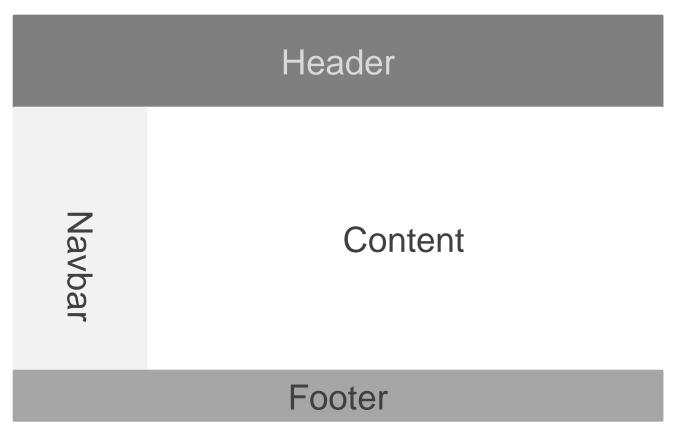
Package Id: D Team Member			
Use Case Id	Use Case Name	Actors	
D0100	Send EG Statistics	Client	
D0200	Upload EG Statistics	Meter, Time	
Queries/Reports			

2 UI Prototypes

2.1 Team UI Guidelines

The design and layout of our web pages are of a minimalistic nature and therefore only the template we used is extremely simple and allows for a large degree of freedom to put content anywhere within the template guidelines.

This is a high-level template for all types of content and all pages:



The following template is more detailed than the previous template however it still allows for a lot of designer freedom. This template begins to show the very beginning forms of aspects of the navigation control, user efficiency, recognition and aesthetic design.

These are of the aspects from the template explained.

Logo – This forms part of both the navigation control and consistency aspects. It serves as a reference point for any page that you are indeed still on the Solo Solar website. Not only that but it also serves as a quick way back to the homepage. A user will always be able to get back to the homepage within one click, and this logo will be consistent in its placement at the top right where it is clearly visible.

Dashboard – A link to a user's dashboard will always available as it will be the most visited page on the website. The dashboard serves as a hub to all a user's functions on the website and therefore it is important to remain in a consistent location which is clear for users to identify and navigate to.

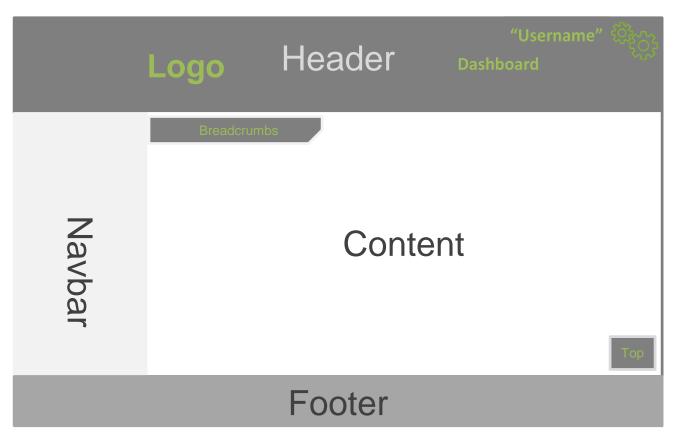


This cog icon symbolizes the current user's settings. From this button the user can view/edit his personal information and logout.

Breadcrumbs - allows the user to always be aware of where they are in the website, how they got there and where they came from.



This button allows users to quickly navigate to the top of the page.



Navigation & Control

The user can navigate to 100% of the pages accessible to that user's role within 3 clicks from any page in the website (3 click rule). The way this is made possible is through the Logo serving as a link to the homepage, and from the homepage almost every page is accessible immediately. Secondly as was discussed above the dashboard is on the menu which links the current user to all their functions and pages within the website.

Support for User Efficiency

Before making an account, the website is very limited, offering only a few pages such as the gallery, about us and view savings pages from the landing page. This helps guide the user to their destination and avoid cluttering the website with links to other pages and functions. Users simply input the necessary information into the few forms (of which all fields are necessary so the total number of inputs needed from the user) and press the big calculate button to see what they came for.

Recognition rather than recall

Consistency in object and function placement is important to encourage familiarity between pages as well as to help users easily pick up where they left off in the event of a user not using the system for a long period. Drop down lists will be used to for some of the technical functions within the website such as selecting a ticket. There could be close to a dozen tickets to any technician at one point in time as such a method helps users to quickly sort and retrieve information.

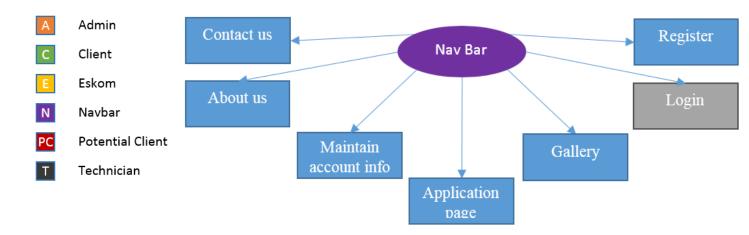
Aesthetic Design

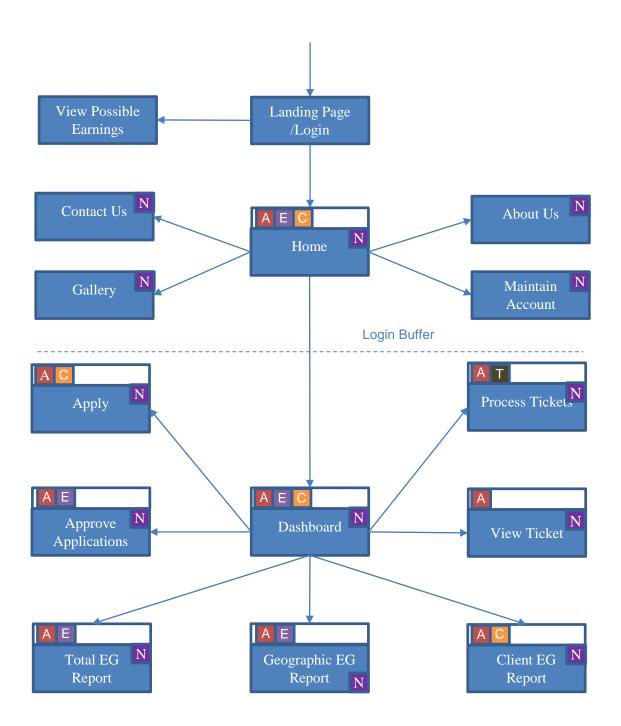
Our minimalistic design aids us in this regard as it helps focus the objective of the page. Our pages will only have information necessary to it so as not to clutter nor distract the user.

Error prevention / recovery

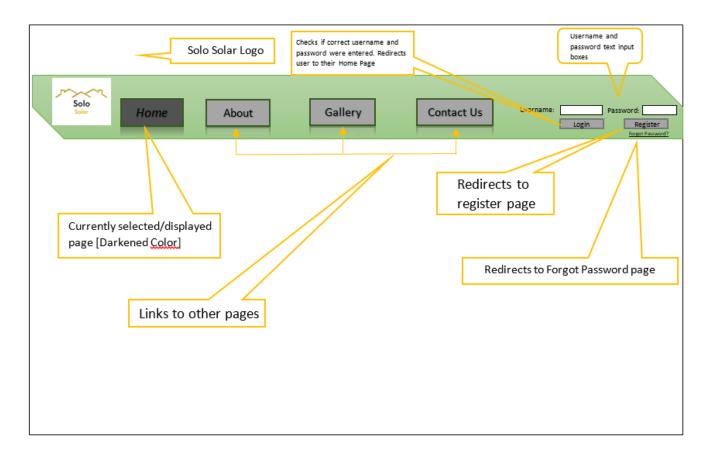
Popups, confirmation messages and spacing between two differing/important buttons are all methods used in our prototypes to avoid the event of a user making a mistake.

2.2 UI Designs

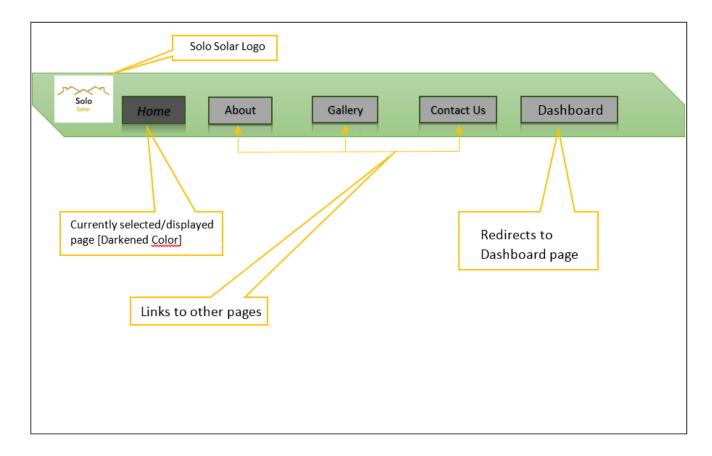




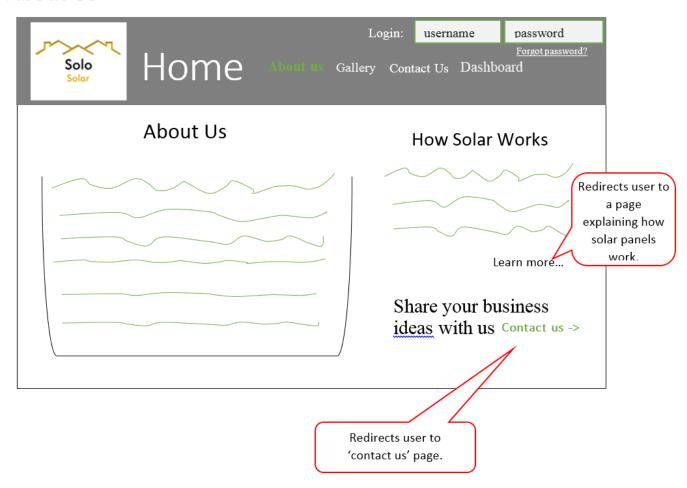
Navigation Bar [NavBar] – Potential Client View



Navigation Bar [NavBar] - Client View

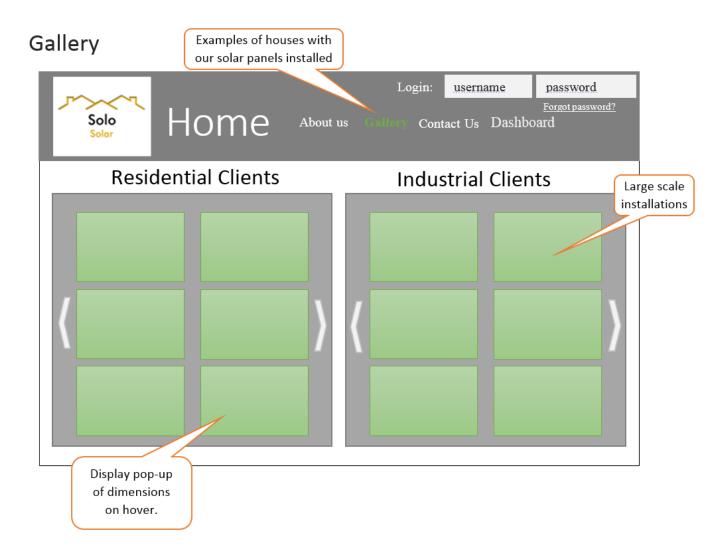


About Us



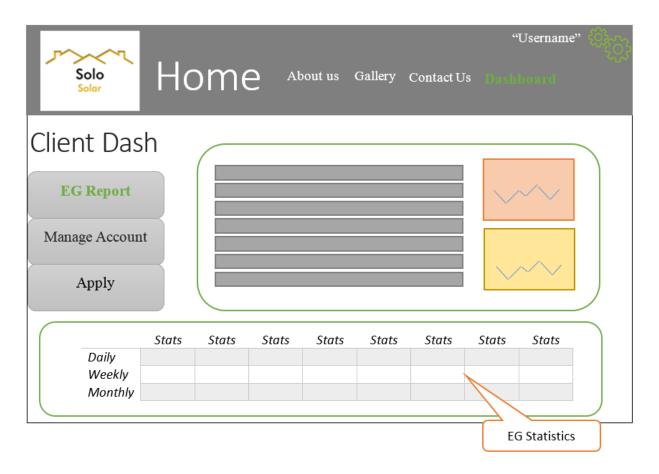
Contact Us

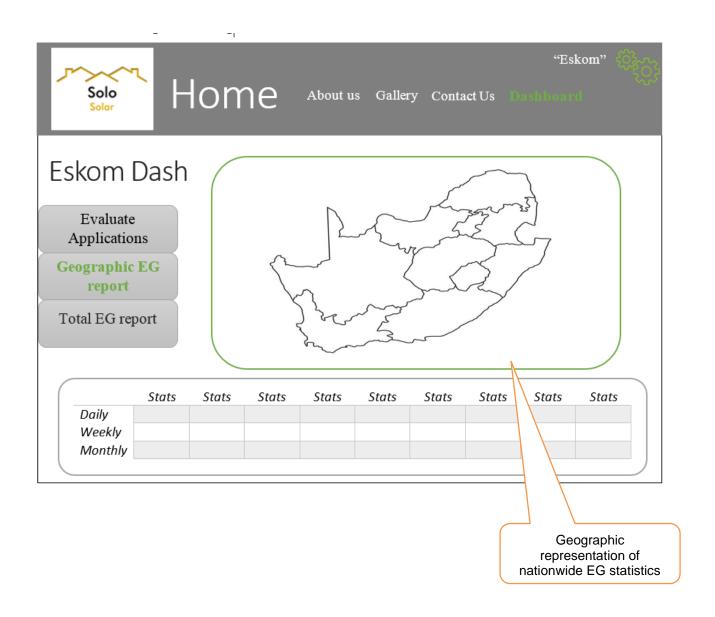
Lo	gin: usernam	1	
Solo Home About us Gallery	Contact Us I	<u>Forgot password?</u> Dashboard	
Get in Touch	Phone Us		
	PE:	041 365 9891	
First Name: Surname:	Cape Town	: 041 248 1686	
Email: • Phone:			
Your massage to us	Our Address:		
Your message to us	PF		
	26 Crescent	t Street	
	Central		
	Cape town		
Send	32 Millbury		
	Green poin	τ	
Send button cannot be clicked			
until required fields have valid data			



2.2.1 Kevin

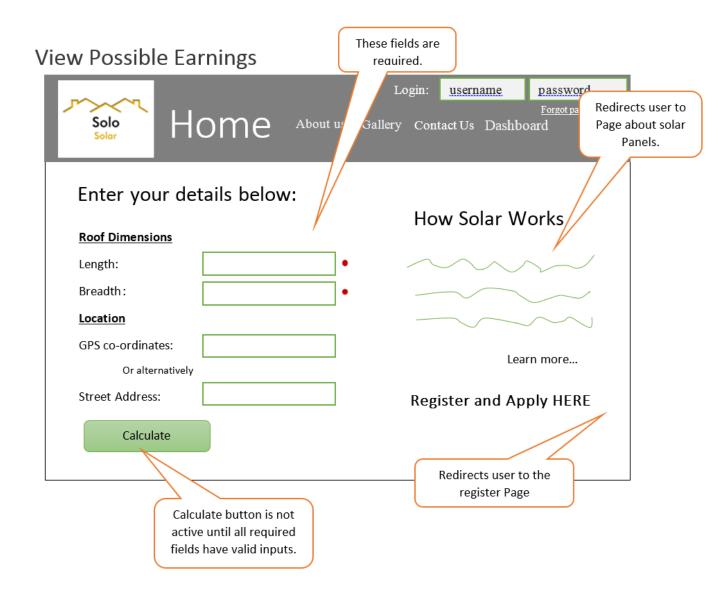
A0200: View Client EG Report





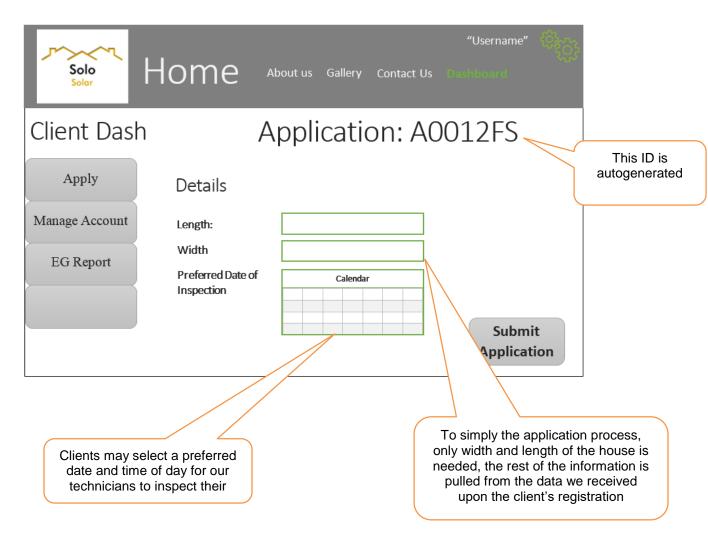


A0500: View Possible Earnings

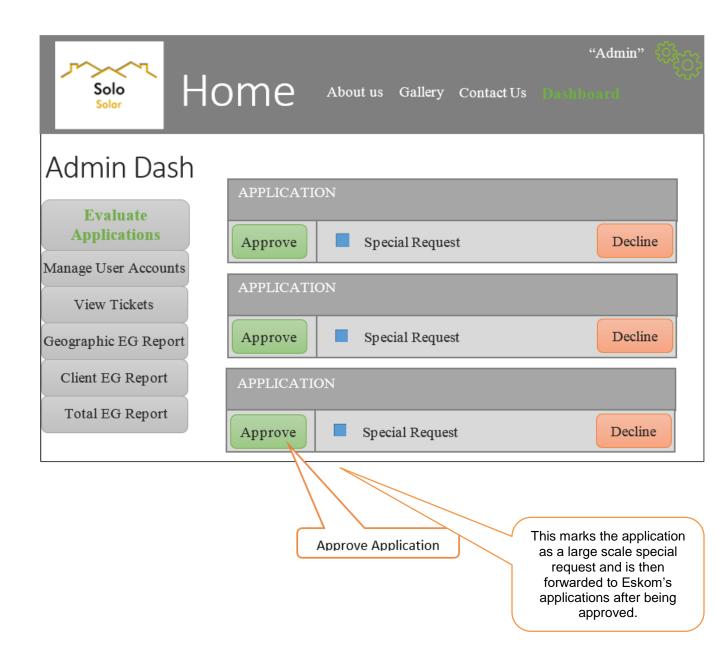


B0100: Submit Applications

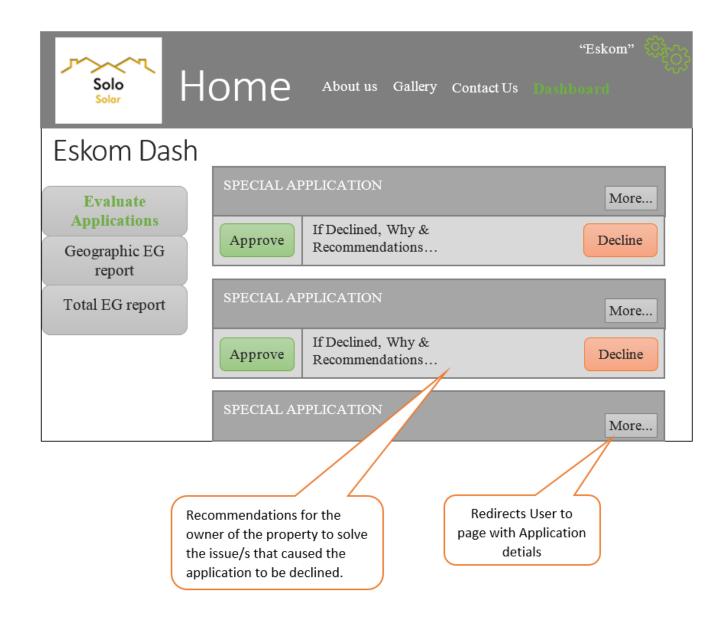
Submit Application



B0200: Process Applications

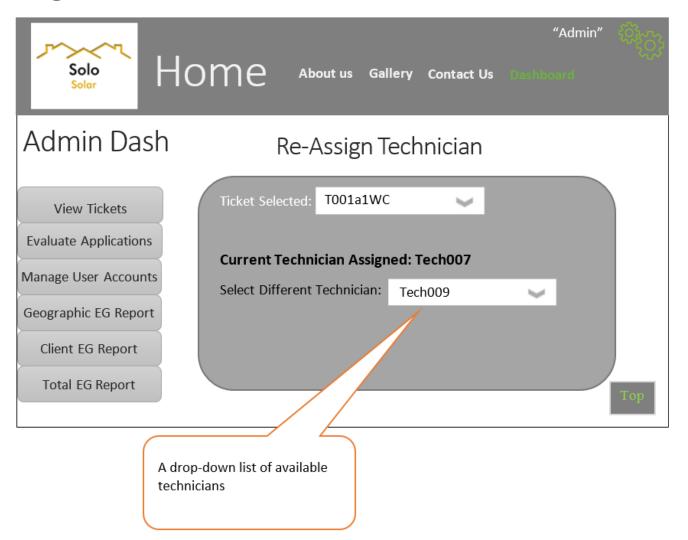


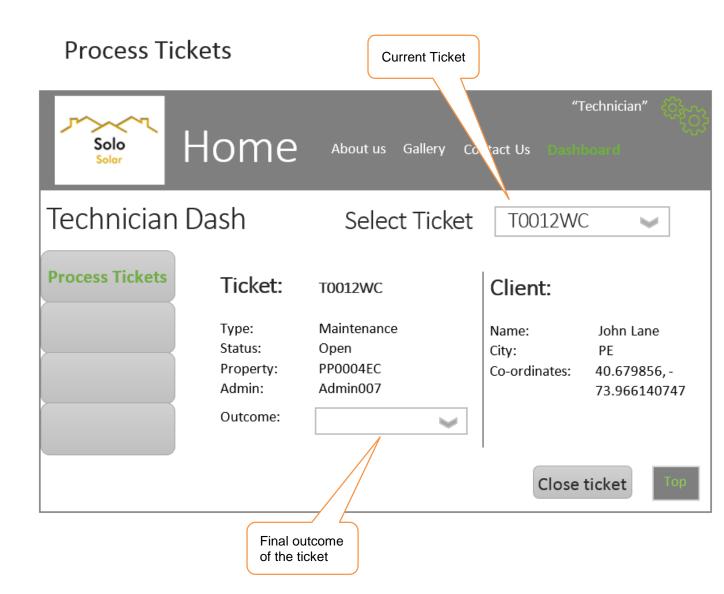
B0300: Process Large Scale Installations



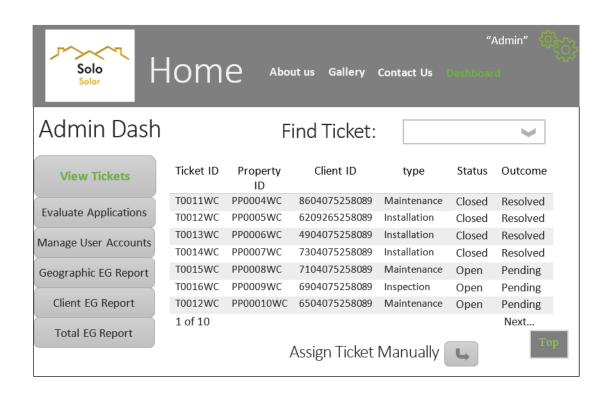
B0400: Assign Technician

Assign Technician





B0600: View Tickets

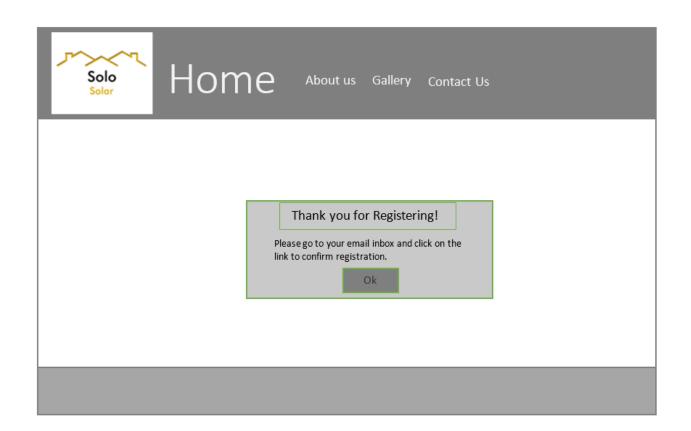


2.2.3 F-Jay

C0100: Register Client

Register Client

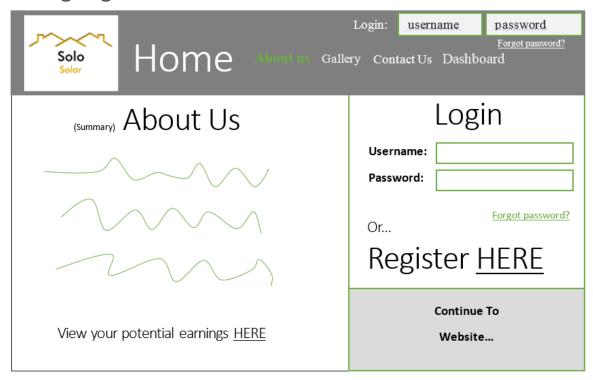
Solo Solar	Home	About us Galle	ery Contact Us	
Breadcrumbs	Accoun	nt Registration		
Name		Address		
Surname		City		
ID Number		Postal Code		
Email		T&C's	Read more	
Username Password			Submit	
Retype Password				Тор



C0200: Maintain Client Account

P~~~7		"Userna	me"
Solo Solar	ome About us G	allery Contact Us	Redirects user to Application
Naintain /	\	Apply for a second	page
Maintain A	ACCOUNT	property	7/
Biographic Information			~ //
ID	9523654785		\sim //
First Name	John	Apply <u>I</u>	<u>HERE</u>
Last Name	Philips	Notification setting	gs
Street Address	21 Kloof Street	■ Email	
Property 1 Information		Cell	Default notification method is email is
Length	14	Notification Timer	
Breadth	4	Monthly Weekly	Daily
Save Changes Save button is runtil all require have valid in	ed fields	er is monthly A p	op-up form appears and confirms the etion of the account.

Landing Page



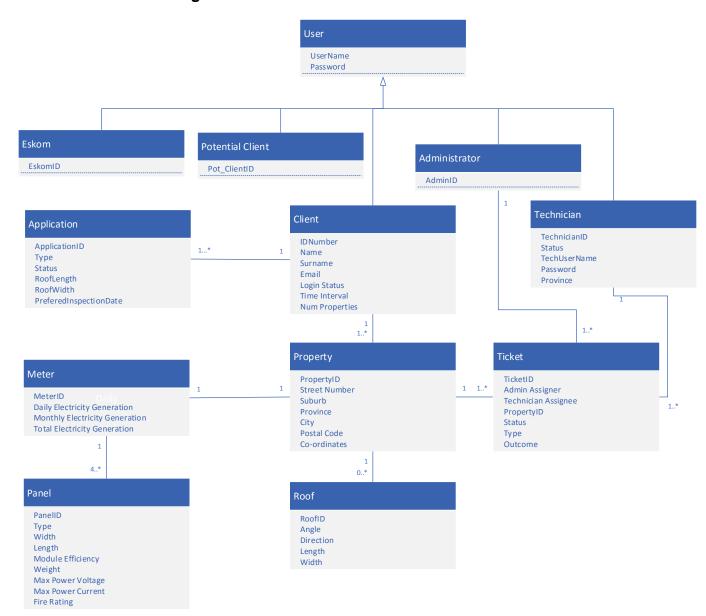
Landing Page [Alt Events - Invalid Login] Trigger -

User clicks the Forgot Password text on Landing Page



3 DATA REQUIREMENTS

3.1 Domain Class Diagram



3.2 Implementation Ready Class Diagram

