

CSCI 3172 Web-Centric Computing

Milestone 4/5

Guest Wi-Fi Management System

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Important Links

Project Git Repo: <https://git.cs.dal.ca/yanlinz/csci3172-groupproject-m3/-/tree/master>

System Live Preview Link: <https://web.cs.dal.ac/>

Portal Preview: <https://web.cs.dal.ac/portal/1>

About Our Project

Guest Wi-Fi Management System is a Platform as a Service, which combines with multi-vendor hardware to provide customers with public service network service capability. This system can both provide vertical customers (merchants) with cloud-based online network management and information publishing capabilities, and horizontal customers (merchants' customers) with wireless network authentication, Internet access services and information services.

Based on Guest Wi-Fi Management System, merchants can manage their store network hardware and authentication page anytime and anywhere to help them better understand and control the network. At the same time, Guest Wi-Fi Management System can also help merchants complete business optimization and data analysis services by properly collecting user authentication information. Based on the Guest Wi-Fi Management System, merchants can also enhance their brand building, release important information and promote their business by customizing the wireless network authentication page. All these functions can help merchants maximize the utilization of wireless network resources and implement the business value based on wireless networks.

Use Instruction

You can run our project locally or access our public domain. If you choose to run it locally, please refer to GitLab ReadMe for instructions. We provided some admin and user accounts with some predefined data set.

For Administrator User Login, please try the following login credential:

Username: admin@example.com

Password: admin

This account is bound for a default store “Second Example Store”

For Merchant User Login, please try the following login credential:

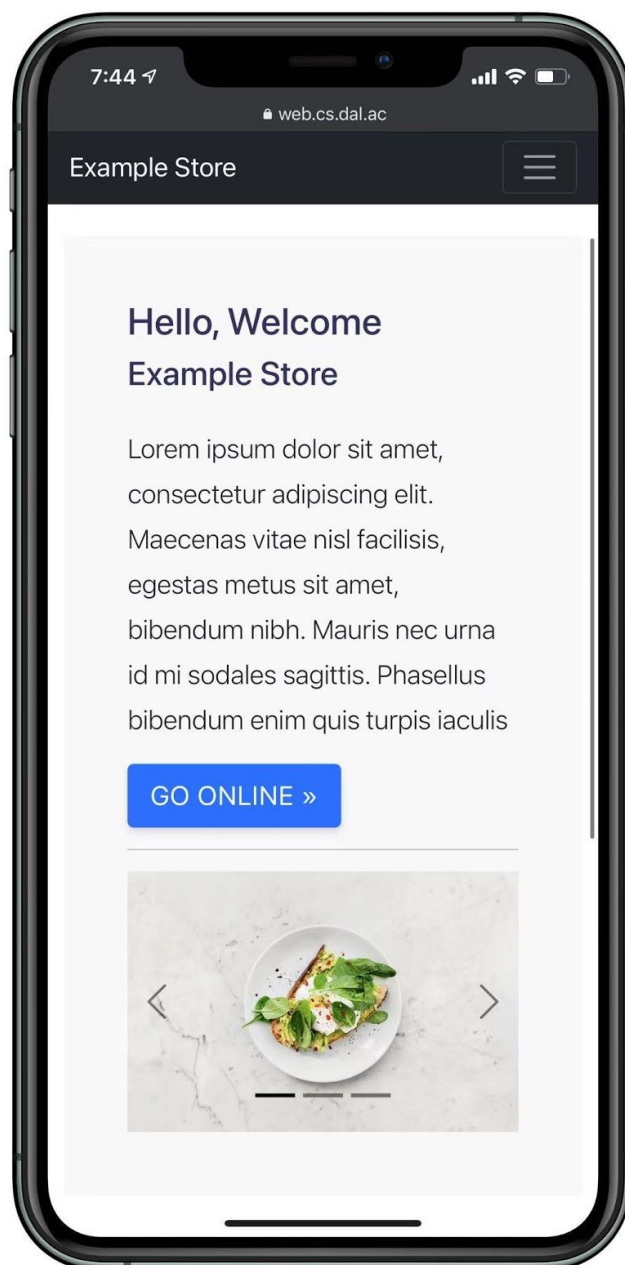
Username: user@example.com

Password: user

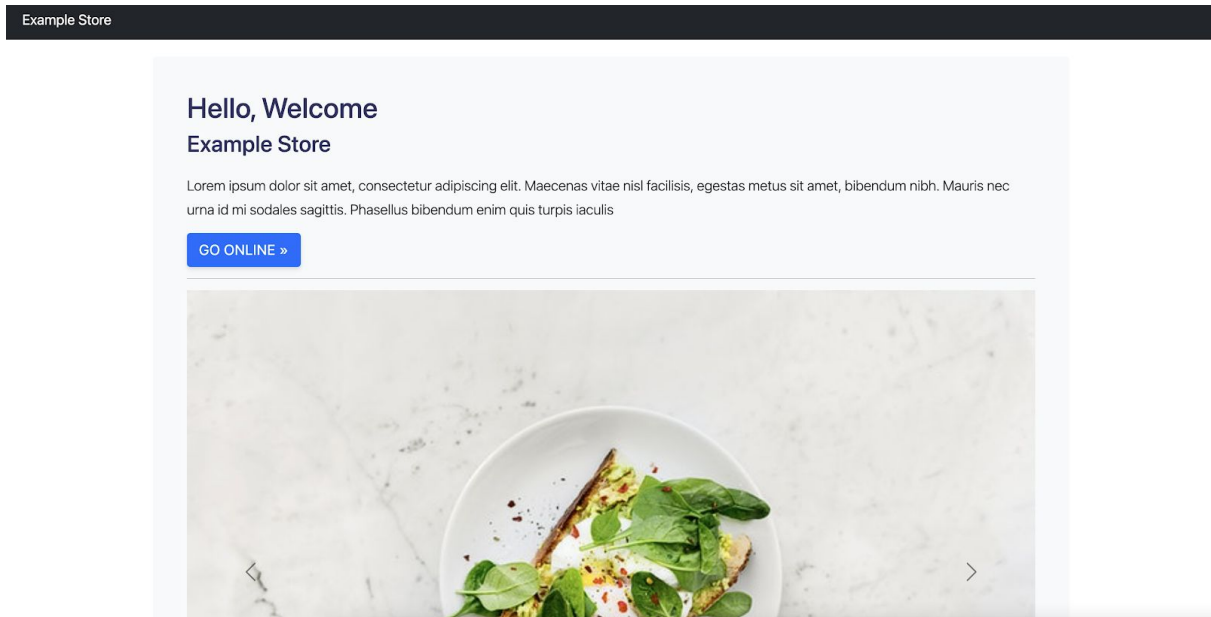
This account is bound for a default store “ Example Store”

User Splash Page Preview

For a mobile user:



For a desktop or tablet user:



Intro to Wi-Fi Management System

1. Access the system preview link: <https://web.cs.dal.ac/>

You will see the homepage of the system and chose the next action (Login or register)



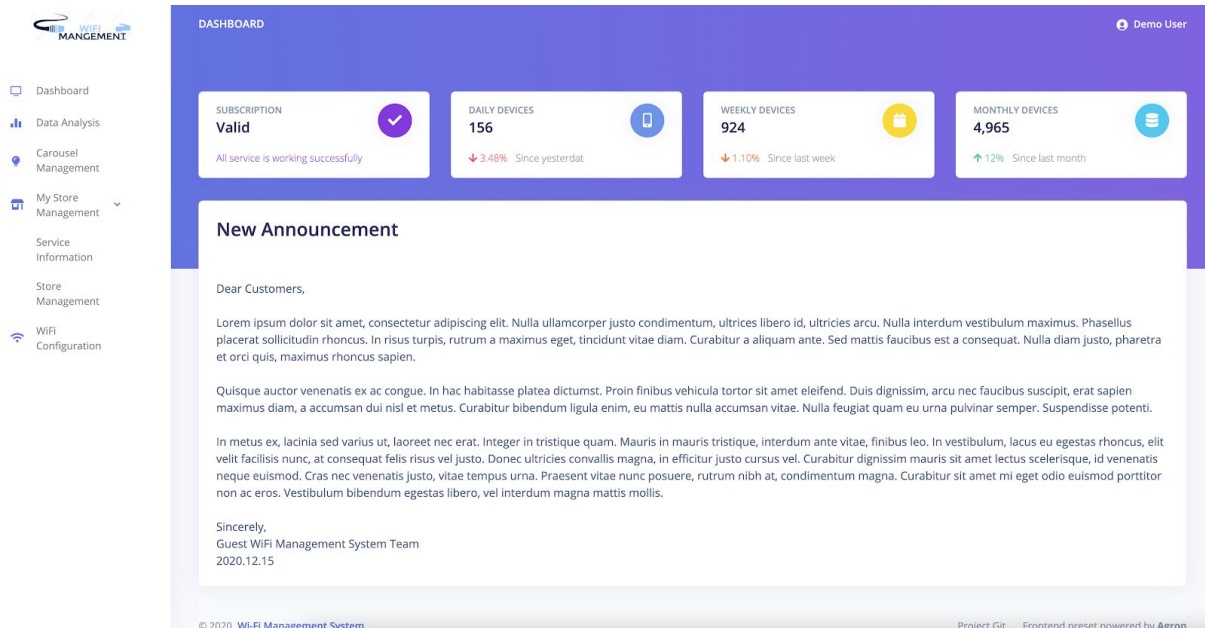
2. You can login with the credential list above.

The screenshot shows the login interface of a 'WI-FI MANAGEMENT SYSTEM'. At the top, there are links for 'Register' and 'Login'. The main heading is 'Cloud Dashboard' with the subtitle 'Login to merchants dashboard'. The central form, titled 'Please login with your merchants account', includes an 'Email' input field, a password field with a strength indicator (6 characters), a 'Remember me' checkbox, and a 'Sign In' button. Below the form are links for 'Forgot password?' and 'Create new account'. The footer contains copyright information '© 2020 WI-FI Management System' and project details 'Project Git Frontend preset powered by Agron'.

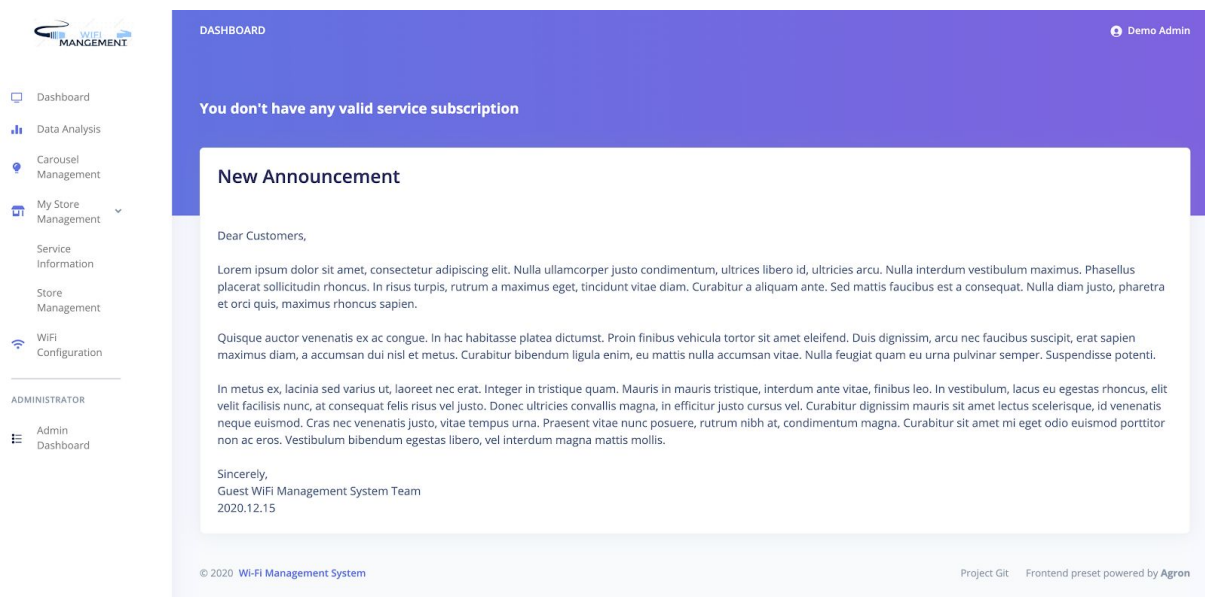
3. Or you can register your own merchant account by clicking the register link

The screenshot shows the sign-up interface of the 'WI-FI MANAGEMENT SYSTEM'. It features 'Register' and 'Login' links at the top. The heading is 'Cloud Dashboard' with the subtitle 'Login to merchants dashboard'. The central form, titled 'Sign up', contains input fields for 'Name', 'Email', 'Phone', 'Password', and 'Confirm Password'. It also includes a checkbox for 'I agree with the Privacy Policy' and a 'Create account' button. The footer is identical to the login page, showing '© 2020 WI-FI Management System' and 'Project Git Frontend preset powered by Agron'.

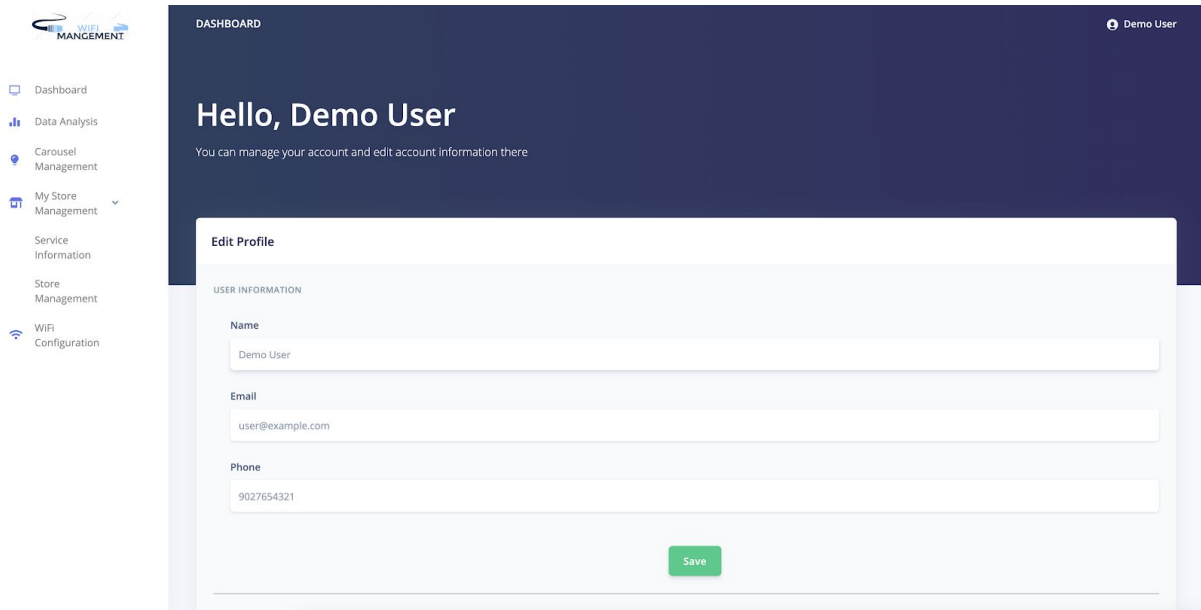
4. After you are logging in, you can see the dashboard.



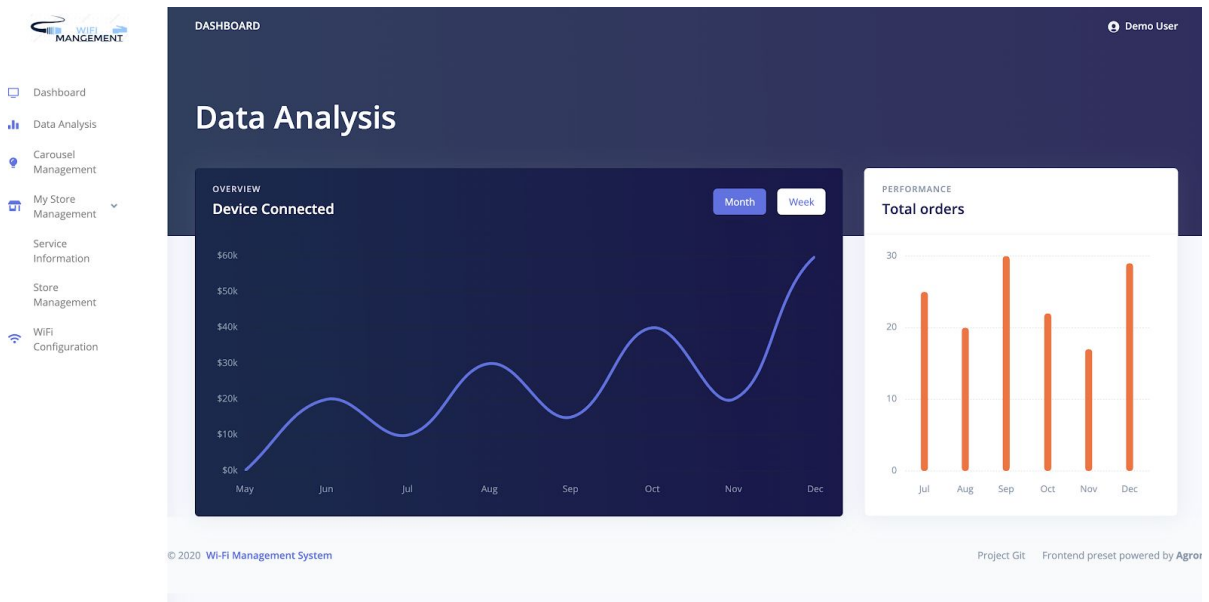
If you are an eligible administrator, you will be able to see the extra link for the administrator dashboard.



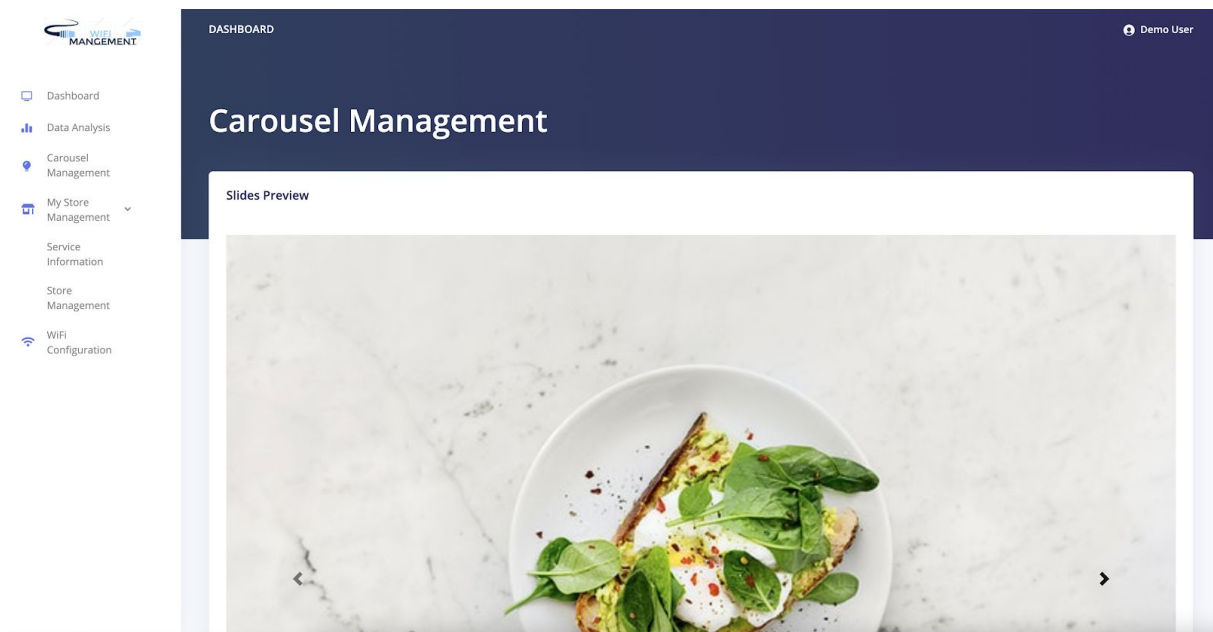
5. You can click your name at the right corner to manage your account profile



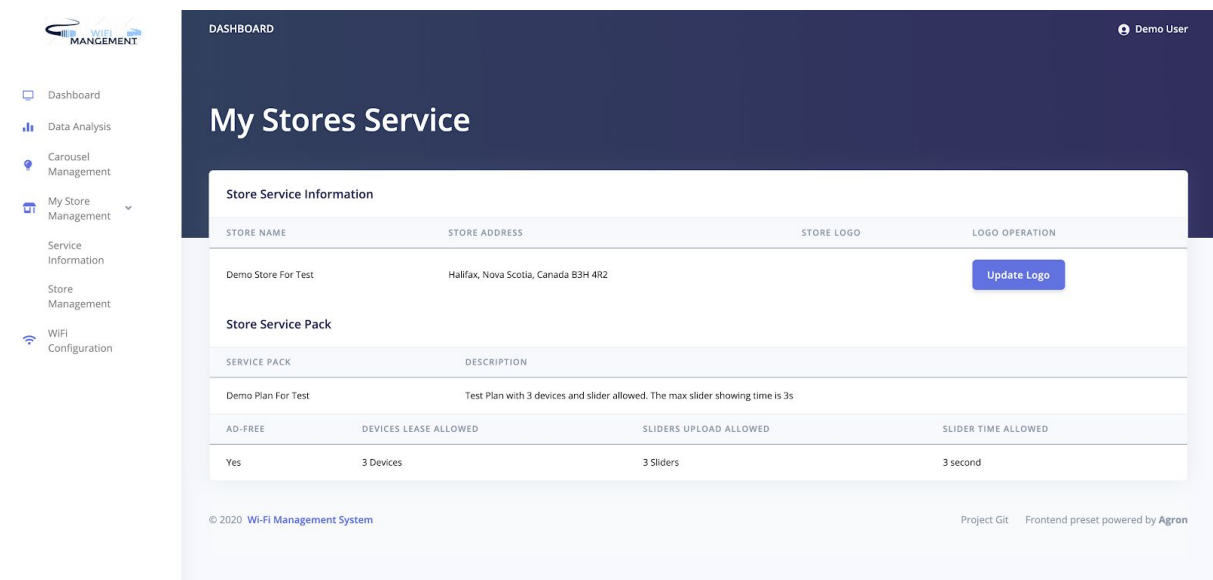
6. As a merchant, you can analyze your store Wi-Fi data.



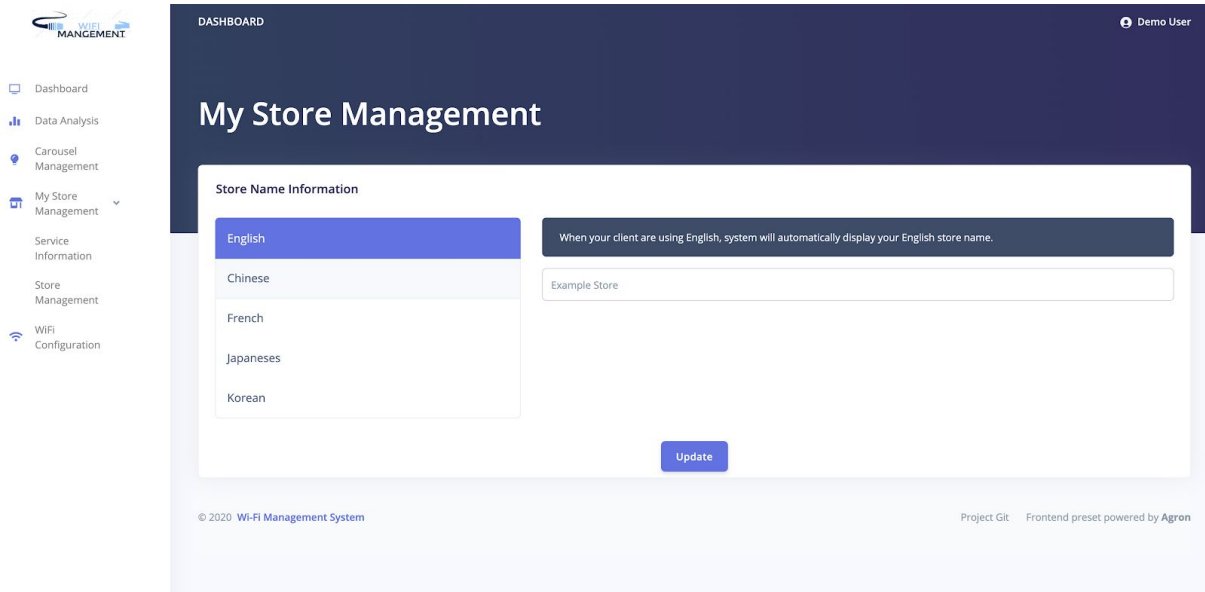
7. Or you can set the slider for your store Wi-Fi splash page.



8. And also, you can see the contracted service and manage your store informations

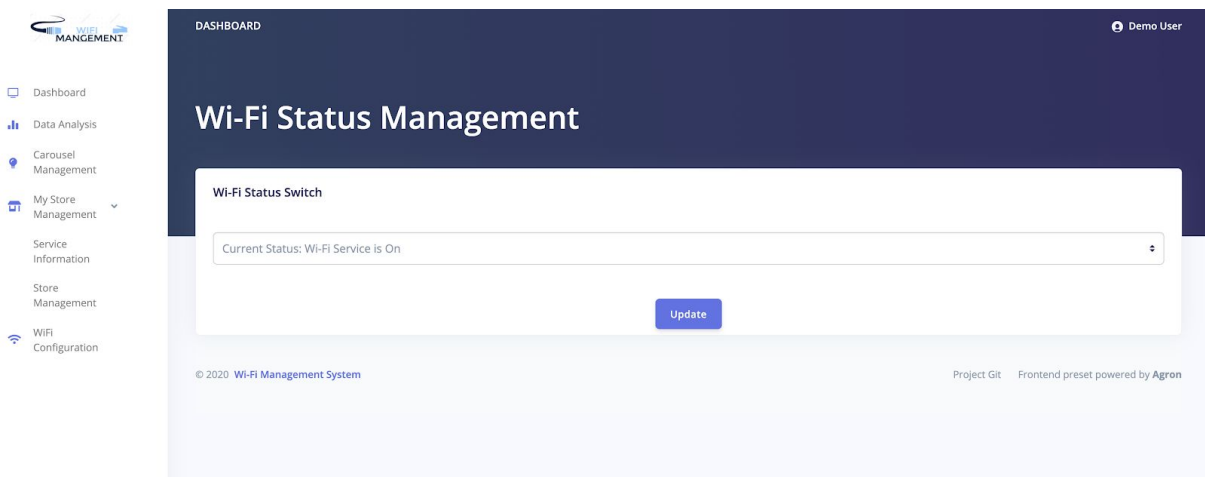


Store Information Page



Store Information Modification Page

9. Besides, you can turn on or disable your store Wi-Fi for your clients



10. As a administrator, you can access the staff dashboard, just click “Admin Dashboard”

The screenshot shows the 'Admin Announcement Post' page. On the left is a sidebar with a 'Dashboard' link and a 'Merchants' section containing a 'Merchants Dashboard' link. The main content area has a dark blue header with 'DASHBOARD' and 'Demo Admin' on the right. Below the header is the title 'Admin Announcement Post'. A table lists announcements with columns 'Admin ID', 'Title', and 'Time'. The first entry has ID '1', title 'The real version', and time '2020-12-16 03:59:39'. Below the table is a 'Content' section with a 'Dear Customers,' greeting, a paragraph of Lorem Ipsum text, and a signature from the 'Guest WiFi Management System Team' dated '2020.12.15'.

Admin ID	Title	Time
1	The real version	2020-12-16 03:59:39

Content

Dear Customers,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla ullamcorper justo condimentum, ultrices libero id, ultricies arcu. Nula interdum vestibulum maximus. Phasellus placerat sollicitudin rhoncus. In risus turpis, rutrum a maximus eget, tincidunt vitae diam. Curabitur a aliquam ante. Sed mattis faucibus est a consequat. Nulla diam justo, pharetra et orci quis, maximus rhoncus sapien.

Quisque auctor venenatis ex ac congue. In hac habitasse platea dictumst. Proin finibus vehicula tortor sit amet eleifend. Duis dignissim, arcu nec faucibus suscipit, erat sapien maximus diam, a accumsan dui nisl et metus. Curabitur bibendum ligula enim, eu mattis nulla accumsan vitae. Nulla feugiat quam eu urna pulvinar semper. Suspendisse potenti.

In metus ex, lacinia sed varius ut, laoreet nec erat. Integer in tristique quam. Mauris in mauris tristique, interdum ante vitae, finibus leo. In vestibulum, lacus eu egestas rhoncus, elit velit facilisis nunc, at consequat felis risus vel justo. Donec ultricies convallis magna, in efficitur justo cursus vel. Curabitur dignissim mauris sit amet lectus scelerisque, id venenatis neque euismod. Cras nec venenatis justo, vitae tempus urna. Praesent vitae nunc posuere, rutrum nibh at, condimentum magna. Curabitur sit amet mi eget odio euismod porttitor non ac eros. Vestibulum bibendum egestas libero, vel interdum magna mattis mollis.

Sincerely,
Guest WiFi Management System Team
2020.12.15

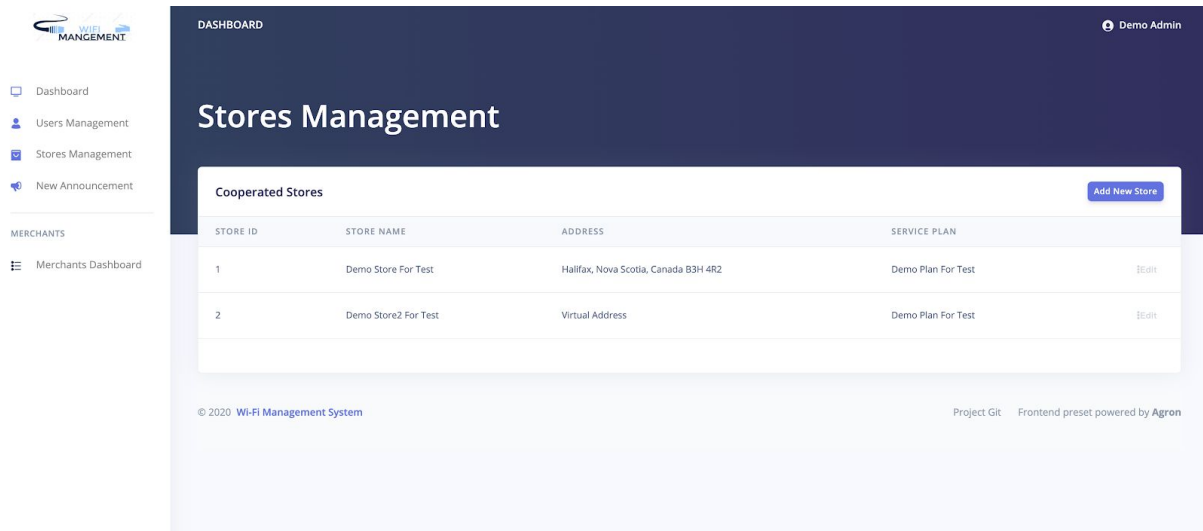
11. You can manage the users in the system

The screenshot shows the 'User Management' page. The sidebar is identical to the previous screenshot. The main content area has a dark blue header with 'DASHBOARD' and 'Demo Admin'. Below the header is the title 'User Management'. A table lists users with columns 'NAME', 'EMAIL', 'PHONE', 'ROLE', and 'REGISTER DATE'. There are four users: Hugo Cheng (Administrator), Yanlin Zhu (Administrator), Demo Admin (Administrator), and Demo User (Merchant). Each row has an 'Edit' link. An 'Add user' button is in the top right corner of the table area. At the bottom, there is a footer with copyright information and project details.

NAME	EMAIL	PHONE	ROLE	REGISTER DATE	
Hugo Cheng	cxh@dal.ca	9028175998	Administrator	2020-12-28 23:35:43	Edit
Yanlin Zhu	zyl@dal.ca	9024109631	Administrator	2020-12-28 23:35:43	Edit
Demo Admin	admin@example.com	9021234567	Administrator	2020-12-28 23:35:44	Edit
Demo User	user@example.com	9027654321	Merchant	2020-12-28 23:35:44	Edit

© 2020 Wi-Fi Management System Project Git Frontend preset powered by Agron

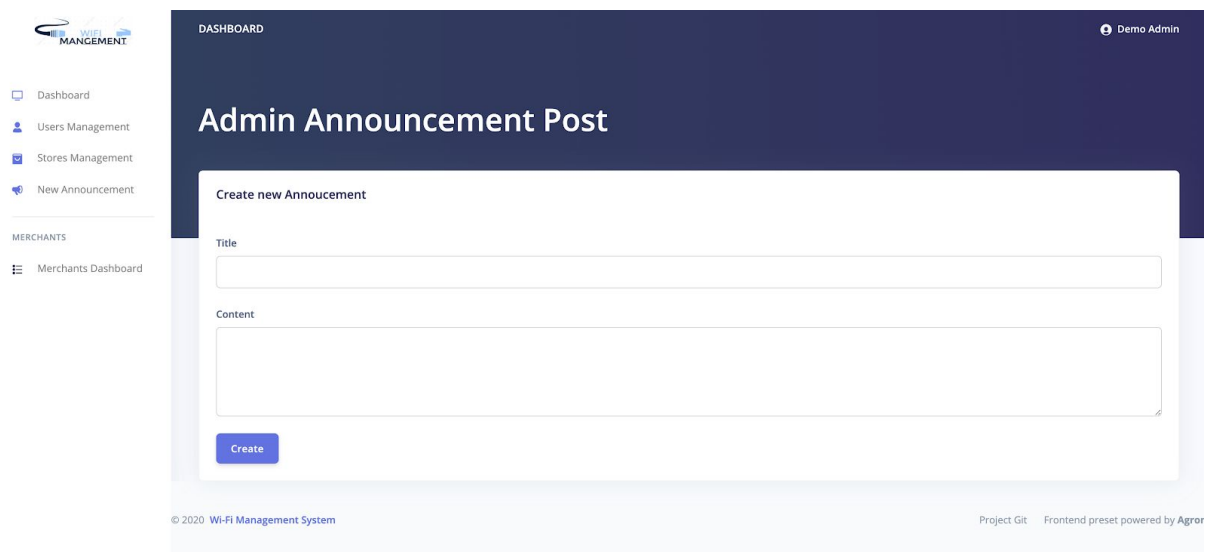
12. And you can manage the stores as well



The screenshot shows the 'Stores Management' dashboard. On the left, a sidebar contains a logo 'Wi-Fi MANAGEMENT' and a menu with 'Dashboard', 'Users Management', 'Stores Management' (highlighted), and 'New Announcement'. Below this is a 'MERCHANTS' section with 'Merchants Dashboard'. The main content area has a dark blue header with 'DASHBOARD' and 'Demo Admin'. The title 'Stores Management' is prominent. Below it, a 'Cooperated Stores' table lists two stores. A 'Add New Store' button is in the top right of the table area. The footer includes '© 2020 Wi-Fi Management System', 'Project Git', and 'Frontend preset powered by Agron'.

STORE ID	STORE NAME	ADDRESS	SERVICE PLAN
1	Demo Store For Test	Halifax, Nova Scotia, Canada B3H 4R2	Demo Plan For Test Edit
2	Demo Store2 For Test	Virtual Address	Demo Plan For Test Edit

13. You can post a new announcement for merchants too.



The screenshot shows the 'Admin Announcement Post' form. The sidebar is identical to the previous screenshot. The main content area has a dark blue header with 'DASHBOARD' and 'Demo Admin'. The title 'Admin Announcement Post' is prominent. Below it, a 'Create new Annoucement' form contains a 'Title' text input and a 'Content' text area. A 'Create' button is at the bottom left of the form. The footer is the same as the previous screenshot.

M4/5 Development Log

1. Improve UI by changing the layout or adding new component
2. Finish features after M3
3. Add security validation for forms and uploads

Features

- ☒ Merchant can login/register to the web
- ☒ Merchant can see their store data
- ☒ Merchant can see charts of their store data
- ☒ Merchant can upload picture as carousel on their WiFi portal
- ☒ Merchant can manage the carousels
- ☒ Merchant can view the service this system provided them
- ☒ Merchant can change their store name shown in the portal in different languages
- ☒ Merchant can manage their WiFi status (switch on/off)
- ☒ Merchant can change their profile
- ☒ Admin can post announcement to all merchants
- ☒ Admin can see the user list
- ☒ Admin can change user info
- ☒ Admin can help merchants reset their password
- ☒ Admin can see the store list
- ☒ Admin can assign new registered user to a store by changing their sid
- ☒ Merchant's customer can see the WiFi authentication portal
- ☒ Merchant's customer can connect to WiFi through authentication portal
- ☐ Merchant data is updated instantly
- ☐ Merchant can post announcement in different languages in the portal

M4/5 Improvement

1. Fix store management error
2. Fix dashboard store management UI
3. Improve UI accessibility
4. Update Dashboard: new store management UI and controller, improve user experience
5. Improve UI design and add Store ID management ability for admin
6. Add new function: Wi-Fi Switch
7. Add form validation for create announcement
8. Fix Security/Function issue: a. Admin can not change user b. Fix wifi switch bug
9. Bug fix: Administrator cannot change users' password

10. Add limitation on maximum slides allowed
11. UI improvement: fix the slider display bugs
12. Change the color of carousel management to dark for better UI experience
13. Bug Fix: fix the bug for no store binding user
14. Security improve: add slide request validation
15. Security improve: add validation for subscription
16. Function improvement: Store Information Management
17. Function improvement: Portal page improvement