CPSC 471 Final Project Report

Summary

Abstract

This reports covers the functionality behind the Property Website that we built for this assignment. In this report we detail the problem that we are solving with this system, our solution, the database and how we query it to input and and receive data from the database itself and how users access our system. There are two main users for this system: Landlords and Tenants.

Landlords are able to edit their profile, put properties on the website for tenants to view, and view applications from tenants - this includes looking at an applicants rental history or any reference letters that accompany their profile. Landlords are then able to create rental agreements with the tenants - once those have been signed by the tenant the landlord is also available to create invoices for payment for tenants to view.

Tenants are able to edit their profile, adding their credit score to their profile, view all properties listed on the website, apply to a property and pending acceptance of their application can sign a rental agreement from a landlord. Tenants can also view any invoices from their landlords. Additionally Tenants can add their rental history in which they can list the properties in the sight that they have lived in before. Tenants also may include multiple reference letters in their profile.

Introduction

The problem that this website is designed to address is when there is no integrated platform for viewing the pertinent items that have to do with your rental agreement. From a tenant perspective we have issues such as, signing and viewing a rental agreement, browsing for a new place to live, or viewing invoices for rental payments. From a landlord perspective there needed to be a place for them to create postings for properties, viewing the potential applicants, viewing that applicant's rental history, creating a rental agreement, and creating invoices for tenants.

This website we've created allows for both tenants and landlords to create accounts and provides all functionality to these actors to do what they need to do. It allows Landlords to create and edit their user profiles, create rental properties, view all applications, view an applicants rental history and create a rental agreement for that tenant. Tenants are able to edit their profile, create applications to specific properties and then accept any rental agreements that have been created for them. Additionally Tenants are also able to create a rental history in which they can list the properties in the sight that they have lived in before. This rental history can be viewed by the landlords that own the properties they apply to.

Changes Since The Demo

We have implemented 2 changes since the Demo:

- 1. Tenants can now add reference letters that are viewable by landlords when they apply to a building.
- 2. Landlords can now add a bylaw to the rental agreement.

Discussion

Landlord Actions

The following are described in detail in the User Manual and the

- Creating Properties
- Editing Profile
- Viewing Applicants
 - View Applicants' Rental History
 - View Applicants' Reference Letter
- Creating Rental Agreements
- Creating Invoices for Payments

Tenant Actions

- Editing Profile
- Creating a Rental History
 - Edit Rental History
- Viewing Properties
 - Applying to Properties
- Viewing Reference Letter
 - Create Reference Letter
- Accepting Rental Agreements
- Viewing Invoices

Running Our Application

We have provided in this submission an SQL schema for our database and a Zip file of all of the php files we used for the front end. Our application is currently being run on a hosting platform called Hostinger.com to access our website you can visit:

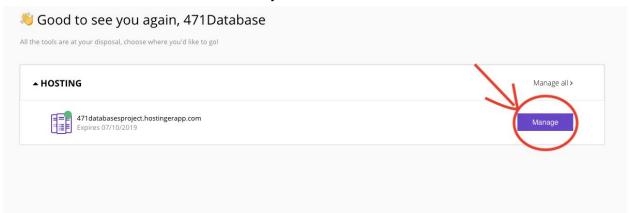
http://471databasesproject.hostingerapp.com/

To View the Interactions with the database you can log into https://www.hostinger.com/ using the following information:

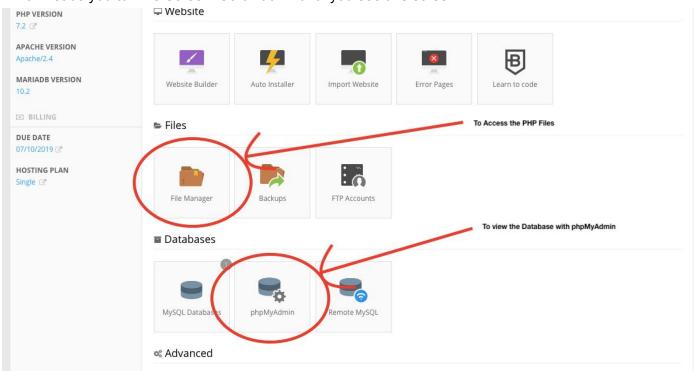
User: wangnanjia@yahoo.com

Pswd: Databases471!

You will be met with this screen and then you click this button:

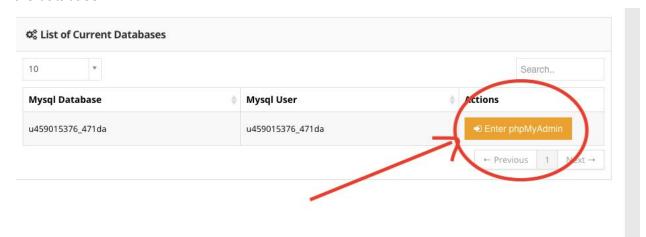


Which Leads you to This Screen: Scroll down until you see this screen



Nanjia Wang 30049414

If you click the lower icon to view the database you will be led to this screen where you can view the database:

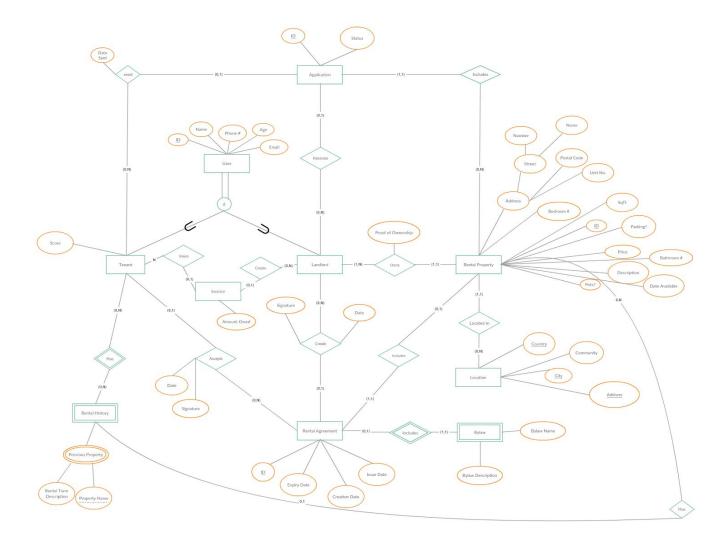


ERD

On the next Page is the ERD for this Database a higher Resolution Version can be found in the Appendix.

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Relational Model

Below is the Relational Model - a higher Resolution version has been added to the Appendix

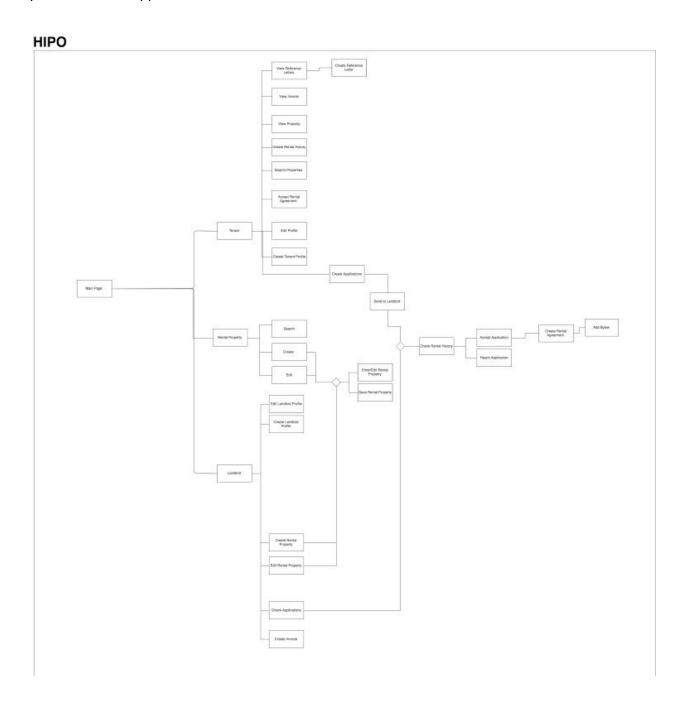


Going from the ERD to the RM:

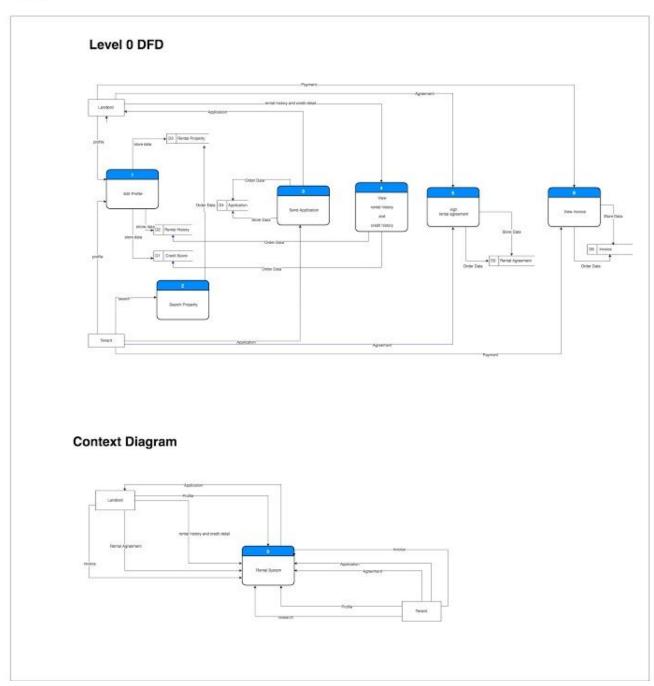
In the relational model, we first have LANDLORD table who has USER ID as the primary id. This table store all the related personal information regarding user who login in as landlord. Then we have the TENANT table store relevant personal information regarding tenant plus credit score, landlord id and rental agreement id which would be added later. We created a separate table called REFERENCE LETTER to store the reference letter for tenant. The reason we create a separate table is to reduce the redundancy in TENANT table. The APPLICATION table has APPLICATION_ID as the primary key and has three foreign key: RENTAL PROPERTY ID, TENANT ID, LANDLORD ID pointed to the related table. The information in this table is created when tenant send application to landlord. RENTAL PROPERTY table record information for the property. The foreign key LANDLORD ID refer to the user who owns the property. LOCATION table just store the additional location information of the property. When landlord create rental agreement, information will be insert to RENTAL AGREEMENT table in column: ISSUE DATE, EXPIRY DATE, LANDLORD ID, DATE_CREATED, LANDLORD_SIGNATURE and DESCRIPTION. And value for AGREEMENT_ID will be auto generated. When tenant accept the agreement, the TENANT SIGNATURE, TENANT ID and DATE ACCEPTED will be updated from NULL to the related value. BYLAWS is the table designed to store additional bylaw information that attached to the rental agreement. Tenant can add rental history in RENTAL_HISTORY table. And when landlord want to collect rent fee from tenant, they create invoice, and information will be add to INVOICE table so that tenant can view it.

Functional Model

Hipo Model Shows the basic flow of the program - a higher resolution version has been provided in the Appendix.



DFD



SQL Statements and Descriptions

Sign Up As Tenant:

Insert into the TENANT table information from the Sign up Page

```
$sql = "INSERT INTO `TENANT`(`USER_ID`, `NAME`, `PHONE_NUMBER`,
`AGE`, `EMAIL_ADDRESS`, `CREDIT_SCORE`, `LANDLORD_ID`,
`RENTAL_AGREEMENT_ID`) VALUES (UUID_SHORT(),'". $name."','".
$phoneNumber."','". $age."','". $email."',NULL,NULL,NULL)";
```

Then Select the tenant to get the ID number for the session

```
$sql2 = "SELECT `USER_ID` FROM `TENANT` WHERE NAME = '". $name."' AND
AGE = '". $age."' AND EMAIL ADDRESS = '". $email."'";
```

Sign In As Tenant:

Select the user with the name and email that matches

```
$sql2 = "SELECT `USER_ID` FROM `TENANT` WHERE NAME = '". $name."'
AND EMAIL ADDRESS = '". $email."'";
```

Sign In As Landlord:

Select the user with the name and email that matches

```
"SELECT `USER_ID` FROM `LANDLORD` WHERE NAME = '". $name."' AND EMAIL ADDRESS = '". $email."'"
```

Sign Up as Landlord:

Insert into the LANDLORD table information from the Sign up Page

```
$sql = "INSERT INTO `LANDLORD`(`USER_ID`, `NAME`, `PHONE_NUMBER`,
`AGE`, `EMAIL_ADDRESS`) VALUES (UUID_SHORT(),'". $name."','".
$phoneNumber."','". $age."','". $email."')";
```

Then Select the Landlord to get the ID number for the session

```
$sql2 = "SELECT `USER_ID` FROM `LANDLORD` WHERE NAME = '". $name."'
AND AGE = '". $age."' AND EMAIL ADDRESS = '". $email."'";
```

Edit Profile as Landlord:

Update the landlord information with the Landlord_ID that matches

```
$sql = "UPDATE LANDLORD SET NAME = '$_POST[uname]', PHONE_NUMBER =
'$_POST[uphone]', AGE = '$_POST[uage]', EMAIL_ADDRESS =
'$ POST[uemail]' where USER ID = " . $ SESSION["LandlordID"]."";
```

Edit Profile as Tenant:

Update the tenant with the Tenantl_ID that matches

```
$sql = "UPDATE TENANT SET NAME = '$_POST[uname]', PHONE_NUMBER =
'$_POST[uphone]', AGE = '$_POST[uage]', EMAIL_ADDRESS =
'$_POST[uemail]', CREDIT_SCORE = '$_POST[credit]' where USER_ID = " .
$_SESSION["TenantID"]."";
```

Landlord view all Applications:

Select the application with Landlord ID matches.

```
$sql = "SELECT `APPLICATION_ID`, `STATUS`, `REQUIREMENTS`,
`RENTAL_PROPERTY_ID`, `TENANT_ID`, `LANDLORD_ID` FROM `APPLICATION`
WHERE LANDLORD ID = " . $ SESSION["LandlordID"]."";
```

Landlord view applicants Rental History:

Select the Rental History with applicants(tenant) ID matches.

```
$sql = "SELECT * FROM `RENTAL HISTORY` WHERE USER ID = $tenant ID";
```

Landlord view applicants Reference Letter:

Select the letter with applicants(tenant) ID matches.

```
$sql = "SELECT * FROM `REFERENCE LETTER` WHERE TENANT ID = $tenant";
```

Landlord create Rental Property:

Insert into Location Table, information from create rental property page.

Landlord view all his tenants:

Select all tenants from TENANT table with the current landlord ID matches

```
$sql3 = "SELECT `USER_ID` FROM `TENANT` WHERE LANDLORD_ID = '".
$_SESSION['LandlordID'].""
```

Landlord create invoice:

Insert into INVOICE table, information from pick Tenant page.

```
$sql = "INSERT INTO `INVOICE`(`INVOICE_ID`, `AMOUNT`, `LANDLORD_ID`,
TENANT_ID) VALUES (UUID_SHORT(),'".
$amount."','".$Landlord_id."','".$tenant_id."')";
```

Landlord create Rental Agreement:

Insert into rental agreement table with information from create rental agreement page.

```
$sql = "INSERT INTO `RENTAL_AGREEMENT`(`AGREEMENT_ID`, `ISSUE_DATE`,
`EXPIRY_DATE`, `LANDLORD_ID`, `DATE_CREATED`, `LANDLORD_SIGNATURE`,
`TENANT_SIGNATURE`, `TENANT_ID`, `DATE_ACCEPTED`, `DESCRIPTION`)
VALUES (UUID_SHORT(),'". $dateIssued."','". $dateExpired."','".
$_SESSION['LandlordID']."','". $dateCreated."','".
$landlordSignature."',NULL,'". $tenant_ID."', NULL,'".
$description."')";
```

Update application status from pending to accepted

```
$sql3 = "UPDATE `APPLICATION` SET STATUS`='Accepted' WHERE
LANDLORD_ID = ".$_SESSION['LandlordID']." AND TENANT_ID =
".$tenant_ID."";
```

Insert into BYLAWS table with information from create Rental Agreement page

```
$sql2 = "INSERT INTO `BYLAWS`(`AGREEMENT_ID`, `BYLAW_NAME`,
`BYLAW_DESCRIPTION`) VALUES ('".$rentalAgreementID."',
'".$bylawName."', '".$bylawDescription."')";
```

Tenant view Properties:

Select the Rental Properties Attributes and display them. We want to view all properties:

```
$sql = "SELECT `PROPERTY_ID`, `PROPERTY_NAME`, `AGREEMENT_ID`,
`SQFT`, `PRICE`, `BEDROOM_COUNT`, `BATHROOM_COUNT`, `PARKING?`,
`PETS?`, `STREET_NO`, `STREET_NAME`, `POSTAL_CODE`, `UNIT_NO`,
`DATE_AVAILABLE`, `PROPERTY_LOCATION`, `LANDLORD_ID`,
`PROOF OF OWNERSHIP` FROM `RENTAL PROPERTY`";
```

Tenant apply Properties:

Insert into APPLICATION table with session tenant ID and Property ID from view all property page.

```
$sql2 = "INSERT INTO `APPLICATION`(`APPLICATION_ID`, `STATUS`,
`REQUIREMENTS`, `RENTAL_PROPERTY_ID`, `TENANT_ID`, `LANDLORD_ID`)
VALUES (UUID_SHORT(), 'Pending', NULL, '". $_GET['propertyID']."', '".
$ SESSION['TenantID']."', '". $landlordID."')";
```

Tenant view Invoice:

Select from INVOICE table with session tenant ID matches.

```
$sql = "SELECT * FROM INVOICE WHERE TENANT_ID = '".
$_SESSION['TenantID']."'"
```

Tenant accept Rental Agreement:

Update the agreement information from accept rental agreement page.

```
$sql3 = "UPDATE TENANT SET LANDLORD_ID = '$Landlord_id',
RENTAL_AGREEMENT_ID = '$rentalAgreementID' where USER_ID =
".$Tenant_id.""
```

Update the landlord table, adding tenant

```
$sql3 = "UPDATE TENANT SET LANDLORD_ID = '$Landlord_id',
RENTAL_AGREEMENT_ID = '$rentalAgreementID' where USER_ID =
".$Tenant id."";
```

Tenant view all Reference Letter:

Select from Reference Letter table with session tenant ID matches

```
$sql = "SELECT * FROM `REFERENCE_LETTER` WHERE TENANT_ID = " .
$_SESSION["TenantID"]."";
```

Tenant add Reference Letter:

Insert into reference letter table with information from create reference letter page.

```
$sql = "INSERT INTO `REFERENCE_LETTER`(`TENANT_ID`, `LETTER`) VALUES
('". $ SESSION['TenantID']."', '". $letter."')";
```

Tenant view Rental History:

Select all information from rental history table with session tenant ID matches.

```
$sql = "SELECT `DESCRIPTION` FROM `RENTAL_HISTORY`WHERE USER_ID = '".
$ SESSION["TenantID"]."'"
```

Tenant add Rental History:

Insert information into rental history table

```
$sql = "INSERT INTO `RENTAL_HISTORY`(`USER_ID`, `RENTAL_HISTORY_ID`,
`DESCRIPTION`) VALUES ('". $_SESSION['TenantID']."', '".
$_POST['propertyID']."','". $description."')"
```

Tenant edit Rental History:

Update the row in rental history table with the property id you choose on edit rental history page.

```
$sql = "UPDATE RENTAL_HISTORY SET DESCRIPTION = '$_POST[description]'
where USER_ID = " . $_SESSION["TenantID"]." and RENTAL_HISTORY_ID =
'$ POST[house]'"
```

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User Manual

Landlord Manual

Main Sign In Page:

Here there is an opportunity for new users to create a landlord account or sign in if they already have one.

Landlord in Database:

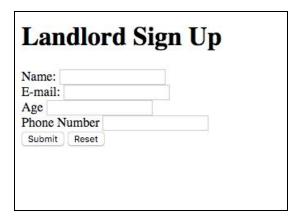
USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS
98102651077525554	Genna Williams	1234567890	39	genna@exampledomain.com
98102651077525558	James Jones	1234567890	54	james@exampleDomain.ca
98102651077525571	Jane	999999999	67	jane@exampleDomain.ca

To Sign In, Enter Name and Email:



To Create an Account You must enter:

- Name
- Email
- Age
- Phone Number



Once you have signed up or signed in you are taken to your dashboard: (Sign in as Genna Williams/genna@exampledomain.com)

Landlord Dashboard

Options

View All Applications
Create a Rental Property
Create An Invoice
Edit Profile
Create Rental Agreement
Logout

View All Applications:

USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS
98102651077525554	Genna Williams	1234567890	39	genna@exampledomain.com
98102651077525558	James Jones	1234567890	54	james@exampleDomain.ca
98102651077525571	Jane	999999999	67	jane@exampleDomain.ca

Shows all the applications that have been submitted to properties you created.

All Applications

Property Name: Cozy Apartment

Status: Pending

Applicant Name: Kaitlin

Applicant Email: kaitlin@exampleDomain.ca

<u>Create Rental Agreement for Tenant</u> <u>View Applicants Rental History</u> <u>View Applicants Reference Letter</u>

View Applicants Rental History:

USER_ID	RENTAL_HISTORY_ID	DESCRIPTION
98102651077525563	98102651077525556	I lived with my friends

Shows the applicants rental history for review a tenant can

98102651077525556:

Description:

I lived with my friends

Back

View Applicants Reference Letter:

TENANT_ID	LETTER
98102651077525563	Please feel free to call me at 1234444444 or write
98102651077525563	To whom it may concern, This letter is written wi
98102651077525566	This tenant was ideal!
98102651077525566	To Whom it May Concern: Please be informed that Te

Shows the applicants Reference Letter

All Reference Letter

Tenant Name: Kaitlin

Please feel free to call me at 1234444444 or write me at 1@me.com.

Tenant Name: Kaitlin

To whom it may concern, This letter is written with the intention of recommending one Julian Paine as a tenant at your rental property. Between May 1st, 2010 and April 30th, 2012, Julian has rented an apartment from me on the lower east side and has never once made a late payment. The monthly rent was \$1400.

Create a Rental Property:

Allows you to input property type, Sqft, Price, numbers of Bedrooms and Bathrooms, parking, pet allowed, address, and Date Available.

Create New Rental Property

Name:	
Sqft:	_
Price:	
Number of Bedrooms:	
Number of Bathrooms:	77
Parking: Pets:	
Unit No:	
Street No:	
Street Name:	
Postal Code:	
Community:	
City:	
Country:	
Date Available: yyyy-mm-dd	
Add Rental Property	
Back	

Create invoice:

Invoice table:

INVOICE_ID	AMOUNT	LANDLORD_ID	TENANT_ID
98102651077525584	2000	98102651077525554	98102651077525563

Allow you announce invoice to your tenant.

Your tenant are listed below: Type in the tenant id that you want to create invoice and amount you want to charge: Tenant ID: Amount: Submit Reset

Edit Profile:

USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS
98102651077525554	Genna Williams	1234567890	39	genna@exampledomain.com
98102651077525558	James Jones	1234567890	54	james@exampleDomain.ca
98102651077525571	Jane	999999999	67	jane@exampleDomain.ca

Allows you change your information like Name, Email, Age, and Phone Number.

Edit Profile

Name	: Genna W	/illiams							
Email	: genna@e	genna@exampledomain.c							
Age:	39								
Phone	Number:	12345678	90						
id: 98	102651077	525554	Update						

Back

Create Rental Agreement:

AGREEMENT_ID	ISSUE_DATE	EXPIRY_DATE	LANDLORD_ID	DATE_CREATED	LANDLORD_SIGNATURE	TENANT_SIGNATURE	TENANT_ID	DATE_ACCEPTED	DESCRIPTION
98102651077525565	2019-04-11	2019-08-01	98102651077525554	2019-04-11	Genna Williams	NULL	98102651077525563	NULL	This is a formal Rental Agreement for Residence In
98102651077525570	2019-04-11	2019-05-08	98102651077525558	2019-04-11	James Jones	NULL	98102651077525566	NULL	This is the Agreement for the Penthouse. Outlined

Allows you to input the start date and expiry date for a rental agreement - as well as the description

Create New Rental Agreement



Back

Finally, Landlord can logout or close the window.

Tenant Manual

Main Sign In Page:

Here there is an opportunity for new users to create a tenant account or sign in if they already have one.

Tenant in Database:

USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS	CREDIT_SCORE	LANDLORD_ID	RENTAL_AGREEMENT_ID
98102651077525563	Kaitlin	1111111111	20	kaitlin@exampleDomain.ca	800	NULL	NULL
98102651077525566	Noah	222222222	19	noah@exampleDomain.ca	NULL	NULL	NULL

To Sign In, Enter Name and Email:

Tenant Sign In Portal



To Create an Account You must enter:

- Name
- Email
- Age
- Phone Number

Sign Up as Tenant

Name:		
E-mail:		
Age		
Phone Nu	ımber	
Submit	Reset	

Once you have signed up or signed in you are taken to your dashboard: (Sign in as Kaitlin/kaitlin@exampleDomain.ca)

Tenant Dashboard

View Properties
View Invoice
Edit Profile
Accept Rental Agreement
View All Reference Letter
Your Rental History
Logout

View Property:

PROPERTY_ID	PROPERTY_NAME	AGREEMENT_ID	SQFT	PRICE	BEDROOM_COUNT	BATHROOM_COUNT	PARKING?	PETS?	STREET_NO	STREET_NAME	POSTAL_CODE	UNIT_NO	DATE_AVAILABLE	PROPERTY_LOCATION	LANDLORD_ID	PROOF_OF
98102651077525556	Cozy Apartment	NULL	600	1000	1	1	1	1	78	Example St	T73 196	14	2019-09-01	98102651077525555	98102651077525554	1
98102651077525560	Penthouse	NULL	1000	2000	2	1	1	1	76	1st St	T4E 9S2	541	2019-08-01	98102651077525559	98102651077525558	1
98102651077525562	Townhouse	NULL	2500	1500	3	2	1	1	27	Acorn Way	TB3 E47	0	2019-06-01	98102651077525561	98102651077525558	1

Show all the available property in the system.

All Properties

Back Property Nar	ne Square	Footage Price Per Mo	onth Number o	of Bedrooms Number of Ba	athrooms Parking	Pets Allowed	Address	Apply
Cozy Apartme	ent 600	1000	1	1	Yes	Yes	14 78 Example St T73 1S	6 Apply
Penthouse	1000	2000	2	1	Yes	Yes	541 76 1st St T4E 9S2	<u>Apply</u>
Townhouse	2500	1500	3	2	Yes	Yes	27 Acorn Way TB3 E47	<u>Apply</u>

Apply to Rental Property:

Allow you apply for the property by clicking Apply button on View Property Page.

Application to Property

Application Has been Sent Back

The application is automatically send the property landlord.

View Invoice:

(empty database)

INVOICE_ID AMOUNT LANDLORD_ID TENANT_ID

Show the invoice amount you need to pay.

0 results. The invoice id is 0 and the amount you need to pay is 0

Edit Profile:

USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS	CREDIT_SCORE	LANDLORD_ID	RENTAL_AGREEMENT_ID
98102651077525563	Kaitlin	111111111	20	kaitlin@exampleDomain.ca	800	NULL	NULL
98102651077525566	Noah	222222222	19	noah@exampleDomain.ca	NULL	NULL	NULL

Allows you change your information like Name, Email, Age, Phone Number, and Credit Score.

Edit Profile

98102651077525563

Name:	Kaitlin	
Email:	kaitlin@exampleDo	omain.ca
Age: 2	0	
Phone	Number: 111111	1111
Credit	Score: 800	
Update		(d)

Back

Accept Rental Agreement:

AGREEMENT_ID	ISSUE_DATE	EXPIRY_DATE	LANDLORD_ID	DATE_CREATED	LANDLORD_SIGNATURE	TENANT_SIGNATURE	TENANT_ID	DATE_ACCEPTED	DESCRIPTION
98102651077525565	2019-04-11	2019-08-01	98102651077525554	2019-04-11	Genna Williams	NULL	98102651077525563	NULL	This is a formal Rental Agreement for Residence In
98102651077525570	2019-04-11	2019-05-08	98102651077525558	2019-04-11	James Jones	NULL	98102651077525566	NULL	This is the Agreement for the Penthouse. Outlined

Once landlord accept your application and create the agreement for you, this page will show the agreement you receive. You can accept it or leave it because you need think about it.

Want to accept the rental agreement?

The rental agreement id is: 98102651077525565
Your potential rental will start on: 2019-04-11
Your potential rental will end on: 2019-08-01
Here is all the additional information you should notice: This is a formal
Rental Agreement for Residence In Cozy Apartment.
Type Your Name for Signature:
Type in the ID of agreement you want to accept: 98102651077525565 ▼
Date Accepted: yyyy-mm-dd
Accept I need think about it

View Reference Letter:

TENANT_ID	LETTER
98102651077525563	Please feel free to call me at 1234444444 or write
98102651077525563	To whom it may concern, This letter is written wi
98102651077525566	This tenant was ideal!
98102651077525566	To Whom it May Concern: Please be informed that Te

Show all the Reference Letter of yours.

All Reference Letter

Reference Letter:

Please feel free to call me at 1234444444 or write me at 1@me.com.

Reference Letter:

To whom it may concern, This letter is written with the intention of recommending one Julian Paine as a tenant at your rental property. Between May 1st, 2010 and April 30th, 2012, Julian has rented an apartment from me on the lower east side and has never once made a late payment. The monthly rent was \$1400.

Add Reference Letter

Back

Add Reference Letter:

After you press 'Add Reference Letter' above, you can add new Reference Letter.

Add Reference Letter

Your Rental History:

USER_ID	RENTAL_HISTORY_ID	DESCRIPTION
98102651077525563	98102651077525556	I lived with my friends

Show all Rental History.

Your Rental History

Rental History: I lived with my friends

Edit Rental History
Create Rental History
Back

Edit Rental History:

You can choose which History you want to change, and then edit description.

Edit Rental History

98102651077525556: Description: I lived with my friends

Input the ID number you want to update:

98102651077525556 ▼ 98102651077525556

Back

Edit Description

Description:	I lived with my friends
Update	

Back

Create Rental History:

You can choose the previous property you lived, and add your description in 1000 characters.

Add Your Rental History

98102651077525556: Cozy Apartment 98102651077525560: Penthouse 98102651077525562: Townhouse

Choose Previous Rental Propert	y: 98102651077525556 ▼
Describe Your Rental History (N	Ma 98102651077525556
	98102651077525560
	98102651077525562
Add Rental History	

Finally, tenant can logout or close the tab.

Appendix

Tables for

Landlord:

USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS
98102651077525554	Genna Williams	1234567890	39	genna@exampledomain.com
98102651077525558	James Jones	1234567890	54	james@exampleDomain.ca
98102651077525571	Jane	999999999	67	jane@exampleDomain.ca
98102651077525574	amanda	5777778888	34	amanda@ex.ca
98102651077525577	Eunice	5881230000	29	name@example.com

Tenant:

USER_ID	NAME	PHONE_NUMBER	AGE	EMAIL_ADDRESS	CREDIT_SCORE	LANDLORD_ID	RENTAL_AGREEMENT_ID
98102651077525563	Kaitlin	1111111111	20	kaitlin@exampleDomain.ca	800	98102651077525554	98102651077525565
98102651077525566	Noah	222222222	19	noah@exampleDomain.ca	NULL	NULL	NULL
98102651077525580	Yiyun	4031119999	25	no@me.com	NULL	NULL	NULL

Application:

APPLICATION_ID	STATUS	REQUIREMENTS	RENTAL_PROPERTY_ID	TENANT_ID	LANDLORD_ID
98102651077525564	Pending	NULL	98102651077525556	98102651077525563	98102651077525554
98102651077525569	Pending	NULL	98102651077525560	98102651077525566	98102651077525558
98102651077525581	Pending	NULL	98102651077525560	98102651077525580	98102651077525558
98102651077525582	Pending	NULL	98102651077525576	98102651077525580	98102651077525574

Bylaw:

AGREEMENT_ID	BYLAW_NAME	BYLAW_DESCRIPTION
98102651077525565	Quiet Hours	Quiet Hours Are 21:00 - 6:00
98102651077525570	Quiet Hours	Quiet Hours are 00:00 - 04:00. These must be Respe

Invoice:

INVOICE_ID	AMOUNT	LANDLORD_ID	TENANT_ID
98102651077525584	2000	98102651077525554	98102651077525563

Location:

LOCATION_ID	COUNTRY	CITY	COMMUNITY	STREET_ADDRESS	UNIT_NO
98102651077525555	Canada	Calgary	Kensington	Example St	14
98102651077525559	Canada	Calgary	Downtown	1st St	541
98102651077525561	Canada	Calgary	Strathcona	Acorn Way	0
98102651077525575	Canada	Calgary	Brentwood	University Drive	11
98102651077525578	Canada	Calgary	Edegemont	Edendale Way	12

Reference Letter:

TENANT_ID	LETTER
98102651077525563	Please feel free to call me at 1234444444 or write
98102651077525563	To whom it may concern, This letter is written wi
98102651077525566	This tenant was ideal!
98102651077525566	To Whom it May Concern: Please be informed that Te
98102651077525580	If given the chance, I would gladly rent to them a

Rental Agreement:

AGREEMENT_ID	ISSUE_DATE	EXPIRY_DATE	LANDLORD_ID	DATE_CREATED	LANDLORD_SIGNATURE	TENANT_SIGNATURE	TENANT_ID	DATE_ACCEPTED	DESCRIPTION
98102651077525565	2019-04-11	2019-08-01	98102651077525554	2019-04-11	Genna Williams	Kaitlin	98102651077525563	2019-04-12	This is a formal Rental Agreement for Residence In
98102651077525570	2019-04-11	2019-05-08	98102651077525558	2019-04-11	James Jones	NULL	98102651077525566	NULL	This is the Agreement for the Penthouse. Outlined
98102651077525583	2019-04-01	2020-09-01	98102651077525554	2019-04-01	G	NULL	98102651077525563	NULL	\$2000 per month

Rental History:

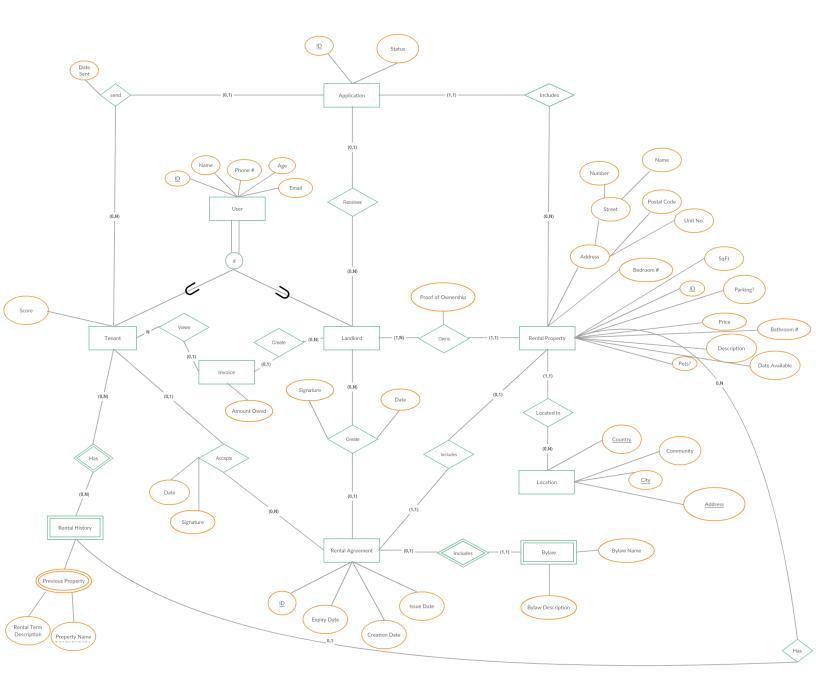
USER_ID	RENTAL_HISTORY_ID	DESCRIPTION
98102651077525563	98102651077525556	I lived with my friends
98102651077525580	98102651077525560	3 years

Rental Property:

PROPERTY_ID	PROPERTY_NAME	AGREEMENT_ID	SQFT	PRICE	BEDROOM_COUNT	BATHROOM_COUNT	PARKING?	PETS?	STREET_NO	STREET_NAME	POSTAL_CODE	UNIT_NO	DATE_AVAILABLE	PROPERTY_LOCATION	LANDLORD_ID	PROOF_OF_OWNERSHIP
98102651077525556	Cozy Apartment	NULL	600	1000	1	1	1	1	78	Example St	T73 1S6	14	2019-09-01	98102651077525555	98102651077525554	1
98102651077525560	Penthouse	NULL	1000	2000	2	1	1	. 1	76	1st St	T4E 9S2	541	2019-08-01	98102651077525559	98102651077525558	1
98102651077525562	Townhouse	NULL	2500	1500	3	2	.1	1	27	Acorn Way	TB3 E47	0	2019-06-01	98102651077525561	98102651077525558	1
98102651077525576	University Apartment	NULL	800	1200	2	1	1	1	0	University Drive	T3K5I8	11	2016-01-22	98102651077525575	98102651077525574	1
98102651077525579	house	NULL	3000	5000	5	3	1	0	0	Edendale Way	T3A3Y3	12	1996-03-11	98102651077525578	98102651077525577	1

Yiyun Shi - 30017738

Nanjia Wang - 30049414

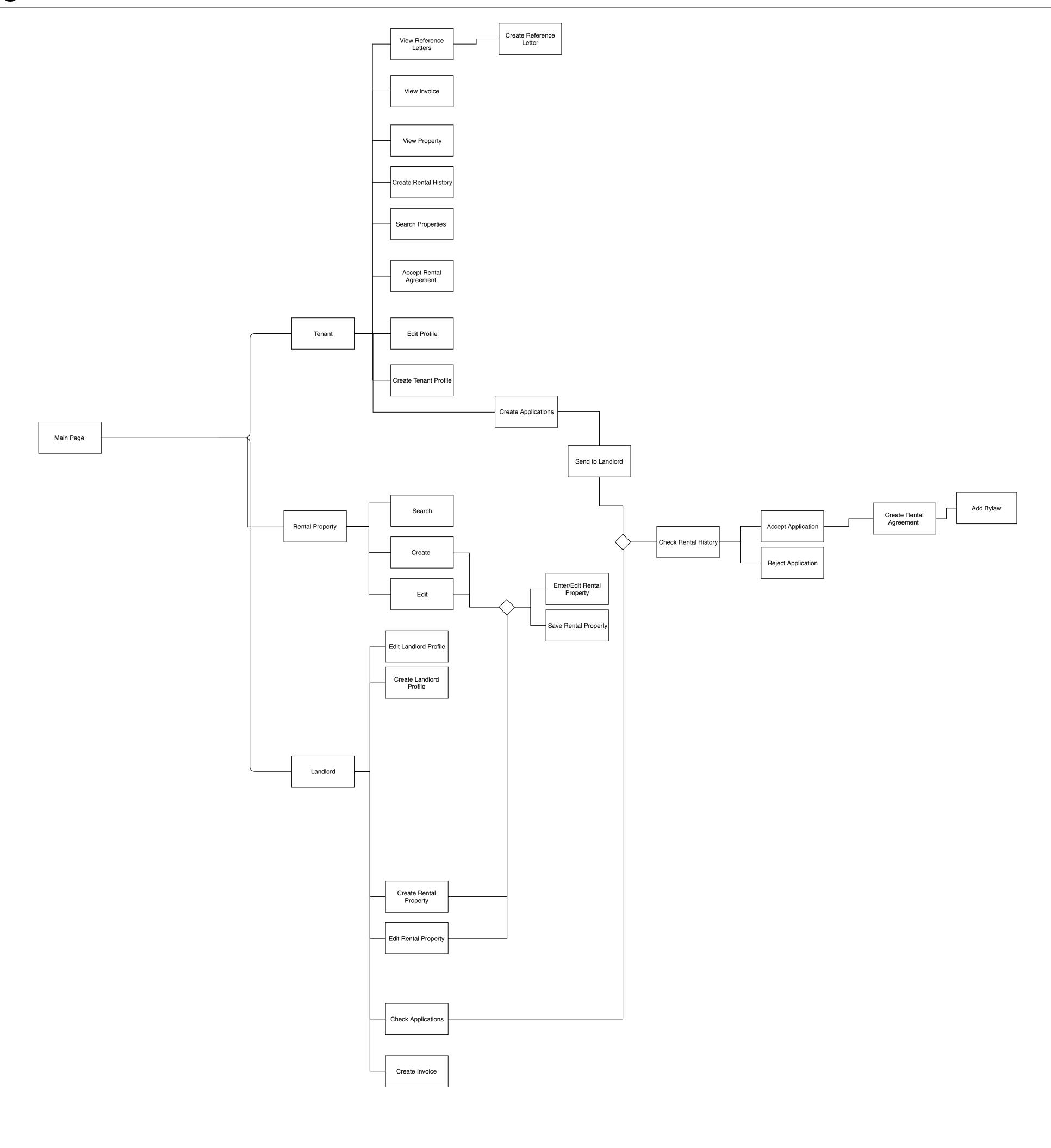








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