



## PHARMACY ERROR TRACKER

### User Manual

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# USER MANUAL

# PHARMACY ERROR TRACKER

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# PHARMACY ERROR TRACKER

## User Manual

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### 1 Introduction

#### 1.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to install and configure your server so that you will be able to deploy the Pharmacy Error Tracker (PET) software in your environment.

- This feature is only available to a user with sudo rights on Ubuntu.

*NOTE: Only users with an intermediate or higher level of knowledge in Linux should be using this guide.*

#### 1.2 Prerequisites

For the PET software to be installed the following minimum requirements are suggested for your server infrastructure:

- 2 core CPU
- 4GB Ram
- 9GB Storage
- Ubuntu 16.04.4 LTS

To successfully install the PET system, you will need to following items installed on your Ubuntu server:

- GIT
- JAVA 1.8 or greater
- NODEJS 9.10 or greater
- MySQL 5.7.22 or greater

Finally, the following ports need to be open and available for the PET software to function correctly:

- 17050 – Metabase Report Server Port
- 3306 – MySQL Port
- 3000 – Pharmacon Application Port



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## 2 System Configuration

### 2.1 Configure MySQL

As part of the PET software installation the software uses several tables in the MySQL database to store and retrieve data relating to errors, users, and medications that are going to be tracked by the system. To create these tables, the PET software comes with a simple SQL script that can be run on your database to create the Schema and tables required.

To execute the PET SQL script, use the following command replacing the MySQL login details with your own MySQL user credentials:

1. `cd ~/pharmacy_app/code/Database PET`
2. `mysql -u <username> -p < PETDatabaseScriptV2.sql`

Once this has been completed your MySQL database will now have to correct schema and database tables setup.

### 2.2 Configure PET Settings

Now that you have successfully set up the MySQL database, the PET software application requires your database credentials to connect to the MySQL database so that it can read and write data.

To update the environmental configuration file for the PET software application run the following commands:

1. `cd ~/pharmacy_app/code/server`
2. `vim .env`

You will now need to update the following entries:

1. DB\_USER: This is the username for your MySQL instance, the default value is root
2. DP\_PASS: This is the password for your MySQL instance, the default value is pharmac0n

```
DB_HOST=localhost
DB_PORT=3306
DB_USER=root
DB_PASS=pharmac0n
DB_TABLE=petdatabase
```

Example: .env file settings



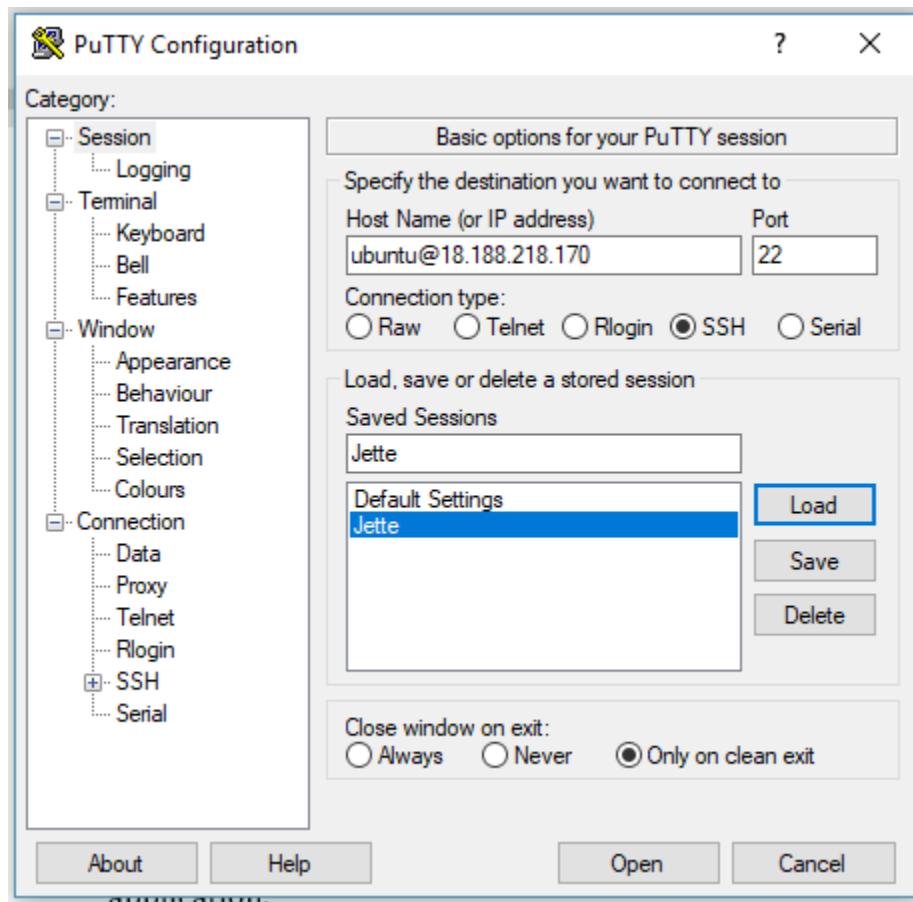
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### 3 Software Installation

#### 3.1 Build Server

The System Administrator will need to log into PET server using putty or other preferred SSH agent as well as their valid username and password or SSH keys.





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- The terminal window will be presented on successful login.

```
Using username "ubuntu".
Authenticating with public key "rsa-key-20180330"
Passphrase for key "rsa-key-20180330":
```

*Enter your login for Putty at this point.*

```
Using username "ubuntu".
Authenticating with public key "rsa-key-20180330"
Passphrase for key "rsa-key-20180330":
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.4.0-1060-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 Get cloud support with Ubuntu Advantage Cloud Guest:
   http://www.ubuntu.com/business/services/cloud

56 packages can be updated.
1 update is a security update.

Last login: Thu Sep 13 04:35:51 2018 from 124.171.97.15
ubuntu@ip-172-31-9-223:~$
```



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Once the user has logged in from the root directory (~) the user needs to clone the PET application from bitbucket by running the following command:

```
git clone https://bitbucket.org/itc303teampharmacon/pharmacy\_app.git
```

The System Administrator will need to use their credentials to sign in and clone the PET application.

Once the file has been downloaded the following command needs to be run in order to give permissions to run the required setup scripts in manual:

```
sudo chmod 777 pharmacy_app/scripts/buildserver.sh
```

To configure the server for use, the user needs to run the following commands on the server:

1. *cd pharmacy\_app/scripts/*
2. *./buildserver.sh build-server*

These commands will setup the configuration files as required and will create the server aliases that will be required to start the different aspects of the server.



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### 4 Managing the Server

#### 4.1 Starting the Web Server

To start the web server, now that the server has been built, the user can run the following command in the console to start the Web Server component of the PET application:

*pharmacon start-webserver*

#### 4.2 Starting the Metabase Report Server

To start the Metabase reporting server now that the server has been built, the user can run the following command in the console to start the Metabase Reporting Server component of the PET application\*:

*pharmacon start-metabase*

→ **NOTE:**

*\* Please note that if the user has already started the Web Server in the terminal, they will need to make a new terminal session to the server to run the Metabase Reporting Server.*

#### 4.3 Stopping the Web Server

To stop the web server now that the server has been built, the user can run the following command in the console to stop the Web Server component of the PET application:

*pharmacon stop-webserver*

#### 4.4 Stopping the Metabase Report Server

*To stop the Metabase reporting server now that the server has been built, the user can run the following command in the console to stop the Metabase Reporting Server component of the PET application:*

*pharmacon stop-metabase*

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### 5 Login - Procedure

There are two authorisation levels for logins relating Pharmacy Error Tracker (P.E.T). The level of authority for the user will dictate the access the user has to P.E.T.

- General user: Access to Log an Error only
- Administrator user: Access to all functionality.

#### 5.1 Login – Administrator

User must have access to the application.

User must have a valid username and password

##### 5.1.1 To Log in to Pharmacy Error Tracker (PET):

1. Launch the application.
2. Click in the Username field.
3. Enter username.
4. Tab or click in Password field.
5. Enter password.

The screenshot shows a 'Please Login' form. At the top, it says 'Please Login'. Below that, there are two input fields. The first field is labeled 'Enter Username' and contains the text 'administrator'. The second field is labeled 'Enter Password' and contains masked text. To the right of the password field is a character count '8 / 25'. Below the input fields are two buttons: a blue 'LOGIN' button and a black 'CLEAR' button. There is also a small eye icon next to the password field.

6. Select LOGIN to access PET.

#### 5.2 Login – General User

User must have access to the application.

User must have a valid username and password.

##### 5.2.1 To Log in to Pharmacy Error Tracker (PET):

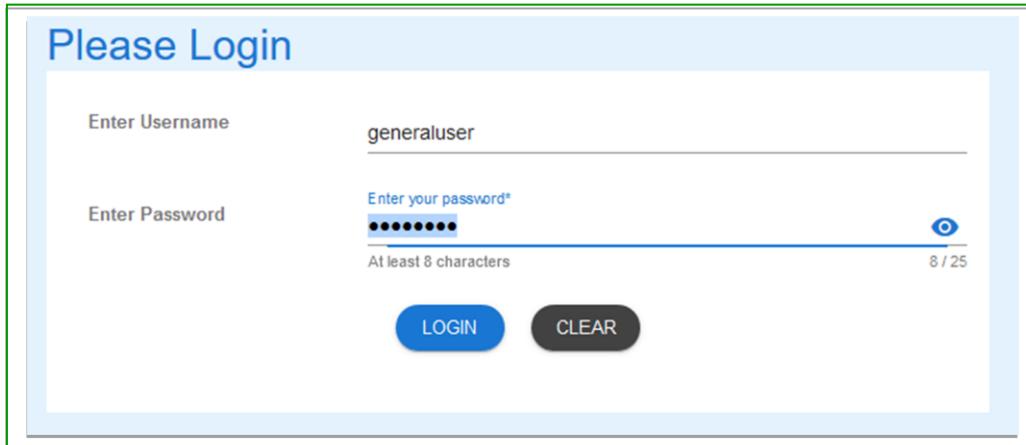
1. Launch the application.
2. Click in the Username field.
3. Enter username.



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- 
4. Tab or click in Password field.
  5. Enter password.



Please Login

Enter Username  
generaluser

Enter Password  
•••••••  
At least 8 characters  
8 / 25

LOGIN    CLEAR

6. Select LOGIN to access PET.

→ **NOTE:**

**Users entering an invalid username and/or password will not be able to access PET.**

## 6 Manage Users - Introduction

### 6.1 Scope and Purpose

The purpose of this section of the User Manual is to provide instructions on how to Manage Users, i.e. add new user logins.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a manage function to create a record.
- This feature is only available to a user with administrator rights.

### 6.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Manage Users via the menu bar or the button on the menu page.



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### 6.3 Manage Users - Process Steps

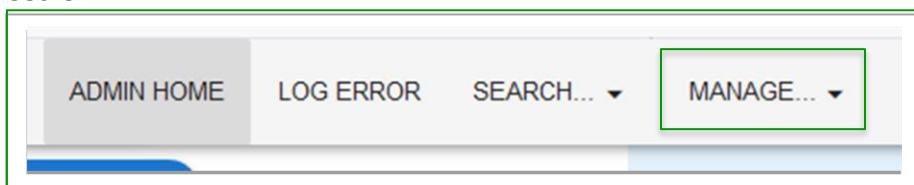
#### 6.3.1 Navigate to Manage Users

1. From the Welcome Page, there are two ways to navigate to “Manage Users”:

- a. Select the “Manage Users” from the list



- b. From the Menu Bar, hover your mouse over “Manage...” and select “Manage Users”



2. The Add New User form will appear.

The form is titled "Add New User". It contains the following fields:

- Login\* (text input field)
- Password\* (text input field)
- Permission Level
  - Normal
  - Administrator
- SUBMIT (blue button)



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### 6.3.2 Create User

1. Enter the details of the new User and a password.

**Add New User**

Login*	ejones
Password*	happy123
<b>Permission Level</b>	
<input checked="" type="radio"/> Normal	<input type="radio"/> Administrator
<b>SUBMIT</b>	

2. Select the **SUBMIT** button and success message appears.

**Form submitted successfully!**

3. Use the Search Users Guide for details to search the database to see record just created.

Search Users		
User ID	UserName	Authentication Level
10	ejones	1

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### 7 Search Users - Introduction

#### 7.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for a user (login) that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 7.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Users via the menu bar or the button on the menu page.

*The administrator will need to know the user's login or part thereof for search purposes.*

### 8 Search Users - Procedure

To search for a user, the administrator will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate a user (login) or multiple users (logins) relating to the search criteria entered.

#### 8.1 Search Users – Process Steps

##### 8.1.1 Navigate to Search Users

1. From the Welcome Page, there are two ways to navigate to "Search Users":

- a. Select the "Search Users" from the list

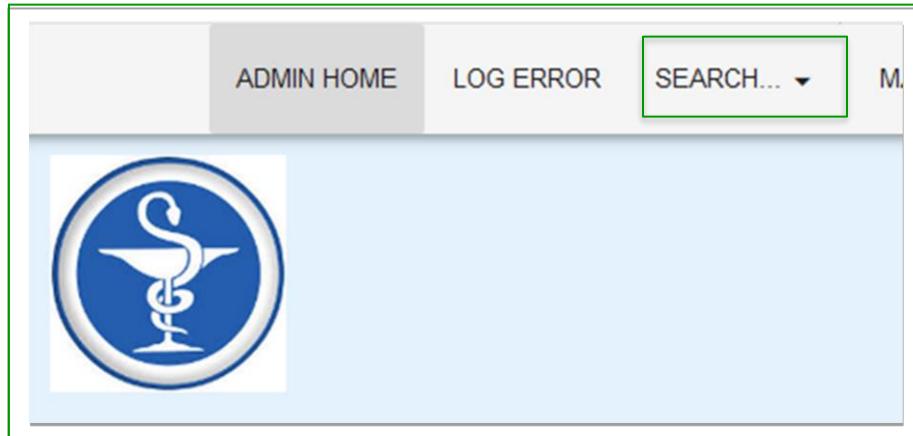




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- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Users”



2. A list of users in the database will appear, showing the first five (5) entries.

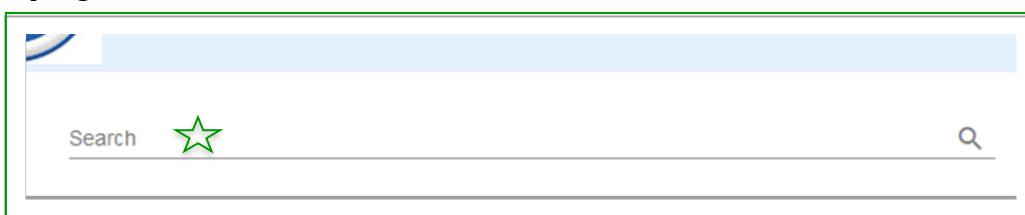
Search Users			Search
User ID ↑	User Name	Authentication Level	
1	test@test.com	1	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
2	frank@test.com	1	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
3	jules@test.com	1	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
4	admin@test.com	2	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
5	administrator	2	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>

- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.



### 8.1.2 Search Users

1. To search for a specific record, enter the criteria in the search field located at the top-right corner.





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2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number of records that are returned. Entering “n” returns 3 records of those available.

User ID ↑	UserName	Authentication Level		
2	frank@test.com	1	CHANGE PASSWORD	DELETE USER
4	admin@test.com	2	CHANGE PASSWORD	
5	administrator	2	CHANGE PASSWORD	DELETE USER

By entering “an” the search is narrowed further.

User ID ↑	UserName	Authentication Level		
2	frank@test.com	1	CHANGE PASSWORD	DELETE USER

### 8.2 Change Password

When the “Change Password” button is selected, the password for the user (login) can be changed. Please see the [Change Password Procedure](#) for guidance.

### 8.3 Delete User

When the “Delete” button is selected, the user/login will be deleted. Please see the [Delete User Procedure](#) for guidance

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### 9 Change Password - Introduction

#### 9.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to change the password for a user (login).

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 9.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Change password via the menu bar or the button on the menu page.

The administrator will need to know the user's login or part thereof for search purposes.

### 10 Change password - Procedure

To search for a user, the administrator will need to launch the application, login with a valid user name and password with administration rights. Using the search function, the administrator will be able locate a user (login) relating to the search criteria entered and be able to change the password.

#### 10.1 Locate User (login)

Administrator must have located the required user via the Search Users function.

##### 10.1.1 Load Change Password Form:

1. Select "Change Password" button.

User ID ↑	User Name	Authentication Level	CHANGE PASSWORD	DELETE
2	frank@test.com	1		

2. Change password form will load.

##### 10.1.2 Change Password Form:

Click in the "Password" field and enter a new password.



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1. Password must be a minimum of 8 alpha/numerical characters with a maximum of 25.

**Change Password**

Login frank@test.com
Password* ••••••••
<b>SUBMIT</b> <b>CANCEL</b>

2. "Submit" button to update password for the user. Message that password was successfully updated appears and then search screen reappears.

Search Users			Search
User ID #	User Name	Authentication Level	
1	test@test.com	1	<b>CHANGE PASSWORD</b> <b>DELETE USER</b>
2	frank@test.com	1	<b>CHANGE PASSWORD</b> <b>DELETE USER</b>
3	jules@test.com	1	<b>CHANGE PASSWORD</b> <b>DELETE USER</b>
4	admin@test.com	2	<b>CHANGE PASSWORD</b>
5	administrator	2	<b>CHANGE PASSWORD</b> <b>DELETE USER</b>

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### 11 Delete User - Introduction

#### 11.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to delete a user that no longer requires access to the Pharmacy Error Tracker.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 11.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Delete users via the menu bar or the button on the menu page.

*The administrator will need to know the user's login or part thereof for search purposes.*

## 12 Delete users

To search for a user, the administrator will need to launch the application, login with a valid user name and password with administration rights. Using the search function, the administrator will be able locate a user (login) relating to the search criteria entered and be able to change the password.

#### 12.1 Locate User (login)

Administrator must have located the required user via the Search Users function.

*NOTE: The administrator cannot delete themselves as the delete button is not available.*

##### 12.1.1 Search for User (Login):

1. Use the search bar to locate the user that is to be deleted. Select “Delete users” button.

Search Users		
User ID ↑	User Name	Authentication Level
2	frank@test.com	1
4	admin@test.com	2
5	administrator	2



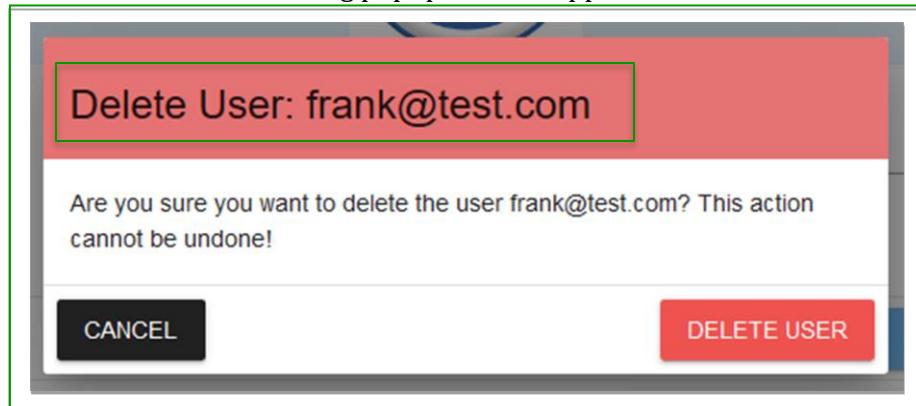
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### 12.1.2 Delete User:

Once the user to be deleted has been located, the delete user button is to be selected.

1. Select Delete User. Warning popup box will appear

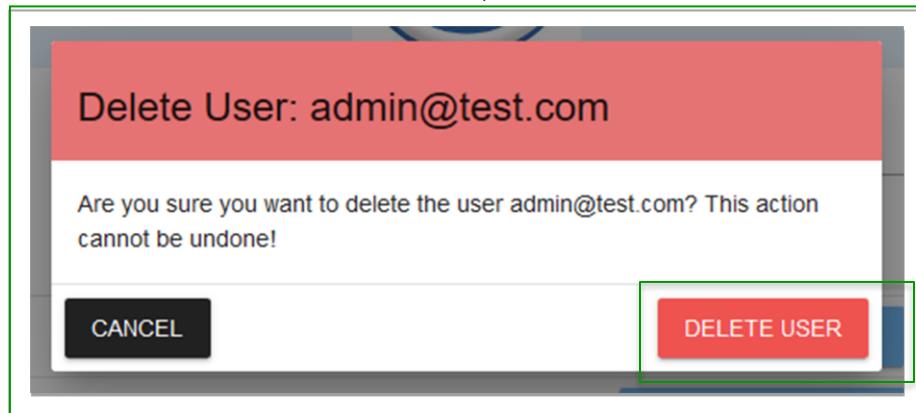


2. Check that the user (login) in the warning corresponds with user (login) to be deleted.
3. If the record selected is incorrect, select "Cancel". The previous search screen will appear. Either start a new search or select correct record.

Search Users			a
User ID	UserName	Authentication Level	
2	frank@test.com	1	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
4	admin@test.com	2	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
5	administrator	2	<button>CHANGE PASSWORD</button>

Rows per page: 5

4. Once correct record has been selected, click "Delete User"





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- 
5. A message appears to indicate that the user (login) has been deleted and the previous search appears. The delete record will not appear in the results.

Search Users			
User ID ↑	User Name	Authentication Level	
2	frank@test.com	1	<button>CHANGE PASSWORD</button> <button>DELETE USER</button>
5	administrator	2	<button>CHANGE PASSWORD</button>
Rows per page:			5 ▾

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### 13 Edit Error Form - Introduction

#### 13.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to edit the error form, i.e. hide fields not required by the workplace, or restore hidden fields.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a manage function to create a record.
- This feature is only available to a user with administrator rights.

#### 13.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Manage Error Form via the menu bar or the button on the menu page.

### 14 Edit Error Form - Procedure

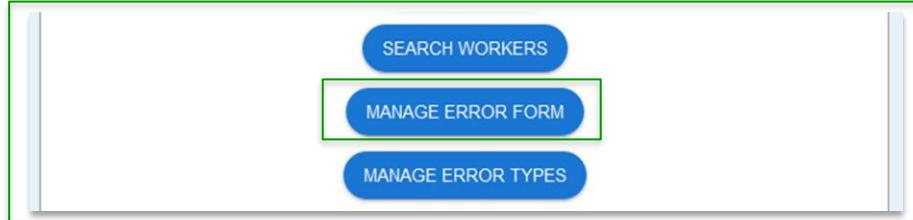
To edit the error form, the administrator will need to launch the application, login with a valid user name and password with administration rights. Using the Manage Error Form, the administrator can manage the fields that will be available in the Log Error form.

→ **NOTE: Only fields that are *not* able to be hidden are the date and time fields.**

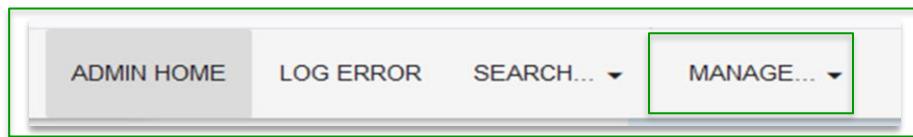
#### 14.1 Manage Error Form – Processing Steps

##### 14.1.1 To Edit Error Form

1. From the Welcome Page, there are two ways to navigate to “Manage Error Form”:
  - a. Select the “Manage Error Form” from the list



- b. From the Menu Bar, hover your mouse over “Manage...” and select “Manage Error Form”





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2. The Edit Error form will appear.

**Edit Error Form**

Show Patient information fields?	<input checked="" type="checkbox"/>
Show Error Type field?	<input checked="" type="checkbox"/>
Show Medication fields?	<input checked="" type="checkbox"/>
Show Person At Fault fields?	<input checked="" type="checkbox"/>
Show Was that person notified field?	<input checked="" type="checkbox"/>
Show Error Location field?	<input checked="" type="checkbox"/>
Show IIMS Completed field?	<input checked="" type="checkbox"/>
Show Was Severity Level field?	<input checked="" type="checkbox"/>
Show Physician information	<input checked="" type="checkbox"/>

3. To hide fields from the Log Error form, “untick” the box relating to the fields to be hidden.

**Edit Error Form**

Show Patient information fields?	<input checked="" type="checkbox"/>
Show Error Type field?	<input checked="" type="checkbox"/>
Show Medication fields?	<input checked="" type="checkbox"/>
Show Person At Fault fields?	<input type="checkbox"/>
Show Was that person notified field?	<input type="checkbox"/>
Show Error Location field?	<input checked="" type="checkbox"/>
Show IIMS Completed field?	<input checked="" type="checkbox"/>
Show Was Severity Level field?	<input checked="" type="checkbox"/>
Show Physician information	<input type="checkbox"/>



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### 14.1.2 Manage Edit Error Form changes

- From Select the **SUBMIT** button to save changes, **RESET TO DEFAULT** to reset Log Error form to default (all fields showing), or **UNDO CHANGES** to cancel changes made.

Show Was that person notified field?

Show Error Location field?

Show IIMS Completed field?

Show Was Severity Level field?

Show Physician information fields?

**SUBMIT**   **RESET TO DEFAULT**

**UNDO CHANGES**

- Form updated message is returned upon Submit being selected.

**Form updated!**

**SUBMIT**   **RESET TO DEFAULT**

- Form reset to default message is returned upon Reset To Default is selected. All field boxes are also ticked.

**Form reset to default!**

**SUBMIT**   **RESET TO DEFAULT**



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4. Undo success message is returned upon Undo Changes is selected. Field boxes that were unselected, are reset to selected.

Show Person At Fault fields?

Show Was that person notified field?

Show Error Location field?

Show IIMS Completed field?

Show Was Severity Level field?

Show Physician information fields?

Undo success!

### 14.1.3 Example of Edit Error Form changes

1. From Log Error form before changes are made to Person At Fault fields

ADMIN HOME LOG ERROR SEARCH... ▾ MANAGE... ▾

Select Medication Type\*

Error Description or General Comment

Select Person Who Made Error\*

Was the person notified?

Yes  No

Where was error detected?\*

Was an IIMS completed?

Yes  No



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2. Changes made to Edit Error Form to hide Person At Fault and Was that Person Notified field.

**Edit Error Form**

Show Patient information fields?	<input checked="" type="checkbox"/>
Show Error Type field?	<input checked="" type="checkbox"/>
Show Medication fields?	<input checked="" type="checkbox"/>
Show Person At Fault fields?	<input type="checkbox"/>
Show Was that person notified field?	<input type="checkbox"/>
Show Error Location field?	<input checked="" type="checkbox"/>
Show IIMS Completed field?	<input checked="" type="checkbox"/>
Show Was Severity Level	<input type="checkbox"/>

3. Log Error form after changes have been submitted.

ADMIN HOME    LOG ERROR    SEARCH... ▾    MANAGE... ▾

Select an Error Type\*

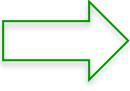
Medication Given

Select Medication Type\*

Error Description or General Comment

Where was error detected?\*

Was an IIMS completed?



Arrow indicates where the hidden fields would normally appear.

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### 15 Log an Error - Introduction

#### 15.1 Scope and Purpose

The purpose of this user guide is to provide instructions for logging an error in the Pharmacy Error Tracker (PET). The user will be taken through the various steps required to successfully log an error.

- To be able to use PET, the user will need basic knowledge of logging into an online application and completing an online form.
- The process of logging an error is the same for both a general user and an administrator.

#### 15.2 Process Overview

The user will need to log into PET using a valid username and password already assigned to them by an administrator (See 5.1).

- For a general user, the Log Error form will appear on successful login.
- For an administrator, a menu page will be presented on successful login. The administrator will need to select Log Error via the menu bar or the button on the menu page.

The user will need to have all the following details concerning the error:

- Date error occurred
- Time error occurred
- Patient hospital ID
- Patient's first name and surname
- Patient type (inpatient, outpatient, etc)
- Error type
- Medication given
- Medication type
- Any general comment about error as required
- Worker causing the error
- Whether the worker was notified
- Location of where the error was discovered (e.g., at the dispensary)
- Whether an IIMS was completed
- The severity of the error
- If the physician was notified



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- If notified, Physician provider number, first name, surname and any comment

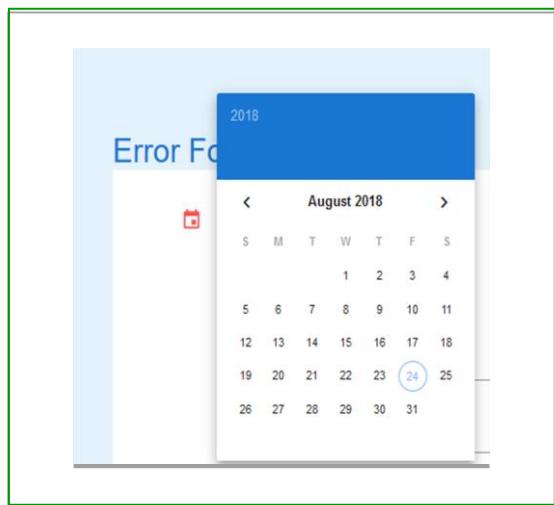
→ **NOTE: Depending on the setup decided upon, not all fields mentioned will be available for input. See Edit Error Form User Guide.**

### 16 Log an Error - Procedure

To log an error, the user will need to launch the application, login with a valid user name and password, and complete the required fields in the form. The form is then submitted to update the database.

#### 16.1.1 To Complete the Log Error Form:

1. Enter the date of the error
  - a) Click in the Date field
  - b) Select the date the error occurred



2. Enter the time of the error
  - a. Click in the Time field
  - b. Select the hour by click and holding on the highlighted "hand" and dragging to appropriate hour and releasing the mouse. You may also click on the



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appropriate hour.

- c. In the same way, select the appropriate minute (hold and drag method or click on required minute).

3. Enter details concerning the Patient:

- a. Patient MRN, First Name, and Surname

Error Form

Date of Error*	2018-08-08	Time of Error*	22:22
Patient MRN	MRN1234		
Patient First Name	Harry		
Patient Surname	Testman		



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4. Select Patient Type by clicking in the field and selecting from the pop-up list

Select Patient Type\*

- Day patient
- Discharge
- Inpatient
- Outpatient

5. Click in Error Type field and select a type from the pop-up list

Batch Number

Directions

Dosage / Strength

Expiry Date

Form Intravenous

Form Per Oral

Select an Error Type\*

6. Enter the Medication Given in the next field

Selected Patient Type\*

Inpatient

Selected an Error Type\*

Dosage / Strength

Medication Given

Morphine



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7. Select Medication Type by clicking in the next field and selecting from pop-up list

Select Medication Type\*

- Inhalation
- Intravenous
- Oral
- Suppository

8. Enter an Error Description or General Comment if needed.

9. Select the staff member who made the error from the pop-up list

Select Person Who Made Error\*

- Meyers, Timothy
- Noble, Jessica
- Shu, Wang
- Smith, Pat
- Stait, Amanda

10. Select Yes if the staff member was advised of the error; otherwise select No

Select Medication Type\*

Intravenous

Error Description or General Comment  
Description or comment goes here

Select Person Who Made Error\*

Smith, Pat

Was the person notified?

Yes       No



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11. Click in the next field and select from the pop-up list where the error occurred

Where was error detected?\*

- Dispensary
- On the ward
- Outside hospital

12. Select Yes if an IIMS was completed; No if it wasn't

Where was error detected?\*

Dispensary

Was an IIMS completed?

Yes       No

13. Select the severity level of the error by clicking in the next field and selecting from the pop-up list

Select Severity Level\*

- Minor
- Low
- Moderate-Low
- Moderate
- Moderate-Severe
- Severe



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14. The next fields may not appear if the Administrator deems them as not required

Selected Severity Level\*

Severe |

Was the physician notified?

Yes       No

Physician Provider Number

Physician First Name

Physician Surname

Physician Comments

If available, select Yes if Physician was notified; No otherwise.

15. If **Yes** selected, enter the following details:

- a. Physician Provider Number
- b. Physician First Name
- c. Physician Surname
- d. Any comment the Physician may wish recorded



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Was the physician notified?

Yes

No

Physician Provider Number

prov1234

Physician First Name

George

Physician Surname

Kable

Physician Comments

Doctor comment goes here

16. If **No** selected, no further details can be entered.
17. Select the Submit button if happy with details entered, Clear if you wish to start clear all fields and start again.

**SUBMIT**

**CLEAR**

18. If the form is valid, the following message will appear

Record submitted successfully!

**CLEAR**

19. Select Clear to enter the next error.
20. Log out when all errors have been entered.

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### 17 Search Errors - Introduction

#### 17.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for an error that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 17.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Errors via the menu bar or the button on the menu page.

The user will need to have one of the following details concerning the error:

- Date error occurred
- Time error occurred
- Patient's name
- Any general comment about error as required
- Physician's name

### 18 Search Errors - Procedure

To search for an error, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate an error or multiple errors relating to the search criteria entered.

#### 18.1 Search Errors – Processing Steps

##### 18.1.1 Navigate to Search Errors

1. From the Welcome Page, there are two ways to navigate to "Search Errors":



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- a. Select the “Search Errors” from the list

Welcome to Pharmacy Error Tracker

This page provides direct links to different sections of the app.

To navigate to a section, select one of the buttons below.

LOG ERROR

SEARCH ERRORS

SEARCH PHYSICIANS

- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Errors”

ADMIN HOME LOG ERROR SEARCH... ▾ M.

2. A list of errors in the database will appear, showing the first five (5) entries.

Pharmacy Error Tracker

ADMIN HOME LOG ERROR SEARCH... ▾ MANAGE... ▾ REPORTING LOGOUT

Search Errors

Error ID ↑	General Comment	Error Date	Error Time	Patient	Physician
1		2018-01-24	08:54:00.000000	Marshall HALL	Marcus Dousip
2	Directions lead to overdose	2018-02-04	10:04:00.000000	Oscar GREEN	Sarah Howlett
3		2018-01-14	18:34:00.000000	Lucy PENAL	Alvin Arulanathan
4		2018-01-02	02:15:00.000000	Patricia FEDERA	Mark David
5	Directions would lead to minor overdose	2018-03-13	01:37:00.000000	Marshall HALL	

Rows per page: 5 ▾ 1-5 of 17 < >



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- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.

Rows per page: 5 1-5 of 17

### 18.1.2 Search Errors

1. To search for a specific record, enter the criteria in the search field located at the top-right corner.

Search ha

Error Time Patient Physician

2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number of records that are returned. Entering "ha" returns 5 records of those available.

General Comment	Error Date	Error Time	Patient	Physician
	2018-01-24	08:54:00.000000	Marshall HALL	Marcus Dousip
	2018-01-14	18:34:00.000000	Lucy PENAL	Alvin Arulananthan
Directions would lead to minor overdose	2018-03-13	01:37:00.000000	Marshall HALL	
	2018-02-05	23:04:00.000000	Victoria HALASMITH	Alice Schibeci
Description or comment goes here	2018-08-08	22:22:00.000000	Harry Testman	George Kable

Rows per page: 5 1-5 of 5 <

By entering "hall" the search is narrowed further.

General Comment	Error Date	Error Time	Patient	Physician
	2018-01-24	08:54:00.000000	Marshall HALL	Marcus Dousip
Directions would lead to minor overdose	2018-03-13	01:37:00.000000	Marshall HALL	

Rows per page: 5 1-2 of 2 <



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3. To see the full details of the error, select the record by clicking on the to the right of the record.

Error Time	Patient	Physician	
08:54:00.000000	Marshall HALL	Marcus Dousip	
01:37:00.000000	Marshall HALL		

4. The selected record will load into the Log Error form, providing full error information

**Error Form**

Date of Error*	2018-01-24	Time of Error*	08:54
Patient MRN	145dfg		
Patient First Name	Marshall		
Patient Surname	HALL		

5. To search for another error record, repeat from step 1.

### 18.2 Error Loaded into Log Error Form

Errors that have been loaded into the Log Error form because of a search can be amended and the record in the database updated. Please see the [Update Error Procedure](#) for guidance.

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### 19 Update Error - Introduction

#### 19.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to update an error that has loaded into the Log Error Form through the search feature.

- To be able to use PET, the user will need basic knowledge of logging into an online application, completing an online form, and can use the search function of PET.
- This feature is only available to a user with administrator rights.
- This user guide will commence from the last step in **Search Errors Procedure**.

*NOTE: The user must have a legitimate reason for amending/updating an error. For example, incorrect patient details entered, incorrect patient type entered, comment missed, incorrect spelling, etc.*

#### 19.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to follow the User Guide - Search Errors to search and load the required error into the Log Error Form.

### 20 Update an Error - Procedure

To search for an error, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate an error or multiple errors relating to the search criteria entered. Once the error in question has been located, the administrator selects the error by clicking on the  , loading the error into the Log Error form.

*NOTE: ALL fields in the form can be updated to correct information/fields that contain mistakes. Care needs to be taken to ensure correct information is not changed accidentally.*

#### 20.1 Locate Error Record

User must locate the error record via Search Errors.



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### 20.1.1 Upload Error record to Log Error Form.

1. Select the record to be amended by clicking on the to the right of the record.

Search Errors					
Error ID	General Comment	Error Date	Error Time	Patient	Physician
1		2018-01-24	08:54:00.000000	Marshall HALL	Marcus Dousip

2. The record loads into the Log Error Form

### 20.2 Update Error Details

#### 20.2.1 Locate field needing amendment:

1. Scroll down the form to find field containing incorrect information.
  - a. If it is a list field, click on the dropdown arrow and select correct record.
  - b. If it is a text field, correct mistake in the field

Select an Error Type*
<input type="button" value="Batch Number"/>
Medication Given
Ambien

In the example above, the Error Type should be Dosage/Strength and the Medication Given should have been Xanax.

Select an Error Type*
<input type="button" value="Dosage / Strength"/>
Medication Given
Xanax

2. Select SUBMIT to update the record.

<input type="button" value="SUBMIT"/>	<input type="button" value="CLEAR"/>
---------------------------------------	--------------------------------------



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- 
3. A successful update will receive the following message.



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### 21 Manage Error Types - Introduction

#### 21.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to manage error types, i.e. add new error types.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a manage function to locate records.
- This feature is only available to a user with administrator rights.

#### 21.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Manage Error Types via the menu bar or the button on the menu page.

### 22 Manage Error Types - Procedure

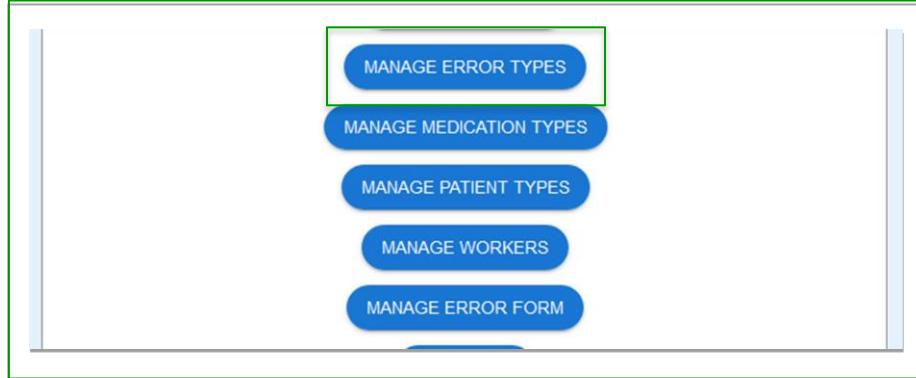
To manage an error type, the user will need to launch the application, login with a valid user name and password with administration rights. Using the Error Type Details form, the user can add new error types.

#### 22.1 Error Types – Process Steps

User must know what Error Types are to be added to the list.

##### 22.1.1 Navigate to Manage Error Types

1. From the Welcome Page, there are two ways to navigate to “Manage Error Types”:
  - a. Select the “Manage Error Types” from the list





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- b. From the Menu Bar, hover your mouse over “Manage...” and select “Manage Error Types”

The screenshot shows a horizontal menu bar with four items: "ADMIN HOME", "LOG ERROR", "SEARCH...", and "MANAGE...". A green rectangular border highlights the "MANAGE..." item and its dropdown menu.

2. The Error Types Details form will appear.

The screenshot shows a form titled "Error Type Details". It contains a single text input field labeled "Error Type" with the value "New Error Type". Below the input field are two buttons: a blue "SUBMIT" button and a black "CLEAR" button.

### 22.2 Create Error Types

User must know what Error Types are to be added to the list.

#### 22.2.1 Add Error Types

1. To Enter the details of the new Error Type.

The screenshot shows the same "Error Type Details" form as above, but with the "Error Type" field populated with "New Error Type". The "SUBMIT" and "CLEAR" buttons are also visible.

2. Select the SUBMIT button and success message appears.

The screenshot shows the "Error Type Details" form after a successful submission. A green horizontal bar at the bottom displays the message "Record added successfully!" next to a checkmark icon. The "CLEAR" button is also visible at the bottom of the form.



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- 
3. Use the Search Error Types User Guide for details to search the database to see record just created.

Error Type ID	Error Type	New Error Type
11		New Error Type

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### 23 Search Error Types - Introduction

#### 23.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for an error type that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 23.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Error Types via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

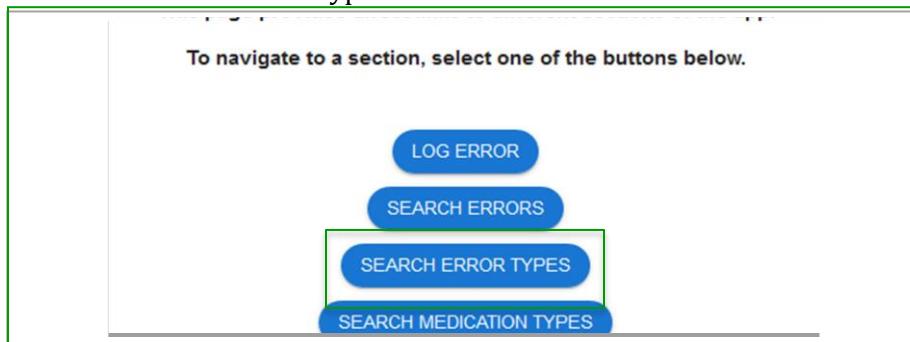
### 24 Search Error Types - Procedure

To search for an error type, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate an error type or multiple error types relating to the search criteria entered.

#### 24.1 Search Error Types – Processing Steps

##### 24.1.1 Navigate to Search Error Types

1. From the Welcome Page, there are two ways to navigate to “Search Error Types”:
  - a. Select the “Search Error Types” from the list





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- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Error Types”

The screenshot shows the top navigation bar of the application. It includes links for "ADMIN HOME", "LOG ERROR", and a dropdown menu labeled "SEARCH...". The "SEARCH..." dropdown is specifically highlighted with a green rectangular border.

2. A list of error types in the database will appear, showing the first five (5) entries.

Error Type ID ↑	Error Type	Batch Number	Directions	Dosage / Strength	Expiry Date	Form Intravenous
1		/				
2		/				
3		/				
4		/				
5		/				

Rows per page: 5 1-5 of 10

- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.

The screenshot shows a dropdown menu labeled "Rows per page:" with the value "5" selected. Below the dropdown, it displays "1-5 of 10", indicating the total number of records found.

### 24.1.2 Search Error Types

1. To search for a specific record, enter the criteria in the search field located at the top-right corner.

The screenshot shows a search interface. At the top, there is a search bar with the placeholder "Search" and a magnifying glass icon. Below the search bar, a dropdown menu is open, showing the option "Error Type" with an upward arrow icon.



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2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number of records that are returned. Entering "d" returns 4 records of those available.

Search Error Types		Error Type
Error Type ID ↑		
2		Directions
3		Dosage - Strength
4		Expiry Date
7		Incorrect Medication

Rows per page: 5 1-4 of 4

By entering "dos" the search is narrowed further.

Search Error Types		Error Type
Error Type ID ↑		
3		Dosage - Strength

Rows per page: 5 1-1 of 1

3. To search for another error type record, repeat from step 1.

### 24.2 Error Type Update

Error types can be loaded into the Error Type Details form from a search, be amended and the record in the database updated. Please see the [Update Error Types - Procedure](#) for instruction.

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### 25 Update Error Type - Introduction

#### 25.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to update an error type that has already been entered and requires correction.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- To be able to search Error Types within PET.
- This feature is only available to a user with administrator rights.

#### 25.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Error Types via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

### 26 Update Error Types - Procedure

User must have located the error type via Search Error Types.

User must know what the field is to be updated to.

#### 26.1 Update Error Type – Processing Steps

User must have access to the application.

User must have a valid username and password with administration rights.

##### 26.1.1 To Update an Error Type:

1. To update details of the error type, select the record by clicking on the to the right of the record.

	Error Type
	Dosage - Strength
Rows per page: 5  1-1 of 1	



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- The selected record will load into the Error Type Details form, providing full error type information

### Error Type Details

Error Type  
Dosage - Strength

**SUBMIT**    **CLEAR**

- Amend the record as required.

### Error Type Details

Error Type  
Dosage or Strength

**SUBMIT**    **CLEAR**

- Select the “Submit” button to update the record in the database. A message stating record has been updated successfully is returned.

### Error Type Details

Error Type

Record updated successfully!

**CLEAR**

- A search for “dos” shows the record has been updated

dos

Error Type

Dosage or Strength



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## User Manual

### 27 Manage Medication Types - Introduction

#### 27.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to manage medication types, i.e. add new medication types.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a manage function to locate records.
- This feature is only available to a user with administrator rights.

#### 27.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Manage Medication Types via the menu bar or the button on the menu page.

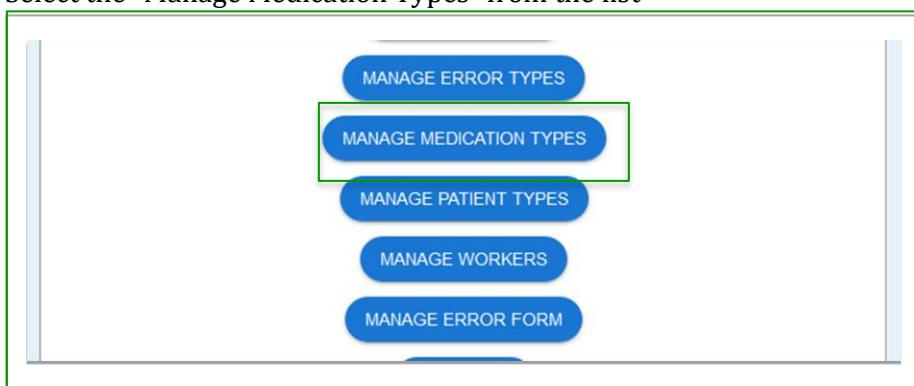
### 28 Manage Medication Types - Procedure

To manage a medication type, the user will need to launch the application, login with a valid user name and password with administration rights. Using the Medication Type Details form, the user can add new medication types.

#### 28.1 Medication Types – Processing Steps

##### 28.1.1 Navigate to Medication Types

1. From the Welcome Page, there are two ways to navigate to “Manage Medication Types”:
  - a. Select the “Manage Medication Types” from the list





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- b. From the Menu Bar, hover your mouse over “Manage...” and select “Manage Medication Types”

The screenshot shows a horizontal menu bar with several options: ADMIN HOME, LOG ERROR, SEARCH..., and MANAGE... (with a dropdown arrow). The 'MANAGE...' option is highlighted with a green border.

2. The Medication Types Details form will appear.

The screenshot shows a form titled "Medication Type Details". It contains a single input field labeled "Medication Type" with the placeholder "New medication type". Below the input field are two buttons: "SUBMIT" (blue) and "CLEAR" (black).

### 28.1.2 Create Medication Types

1. Enter the details of the new Medication Type.

The screenshot shows the same "Medication Type Details" form as above. The input field now contains the text "New medication type". The "SUBMIT" button is visible below the input field.

2. Select the SUBMIT button and success message appears.

The screenshot shows the same form after the "SUBMIT" button has been clicked. A green success message box is displayed, containing a checkmark icon and the text "Record added successfully!". The "CLEAR" button is visible at the bottom of the form.



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3. Go to **Search Medication Types Procedures** for details to search the database to see record just created.

Medication Type ID ↑	Medication Type
7	New medication type

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## User Manual

### 29 Search Medication Types - Introduction

#### 29.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for a medication type that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 29.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Medication Types via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

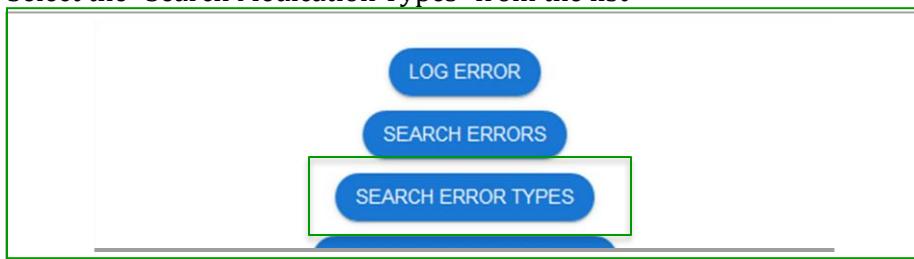
### 30 Search Medication Types - Procedures

To search for a medication type, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate a medication type or multiple medication types relating to the search criteria entered.

#### 30.1 Search Medication Types – Processing Steps

##### 30.1.1 Navigate to Search Medication Types

1. From the Welcome Page, there are two ways to navigate to “Search Medication Types”:
  - a. Select the “Search Medication Types” from the list





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- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Medication Types”

The screenshot shows the top navigation bar of the application. It includes links for 'ADMIN HOME', 'LOG ERROR', and a dropdown menu labeled 'SEARCH...'. A large circular logo is centered on the page.

2. A list of medication types in the database will appear, showing the first five (5) entries.

Search Medication Types		Search	
Medication Type ID		Medication Type	
1		Inhalation	/
2		Intravenous	/
3		Oral	/
4		Suppository	/
5		Cream	/

Rows per page: 5 ▾ 1-5 of 6

- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.

The screenshot shows a dropdown menu for selecting the number of rows per page. The current selection is '5'. Below the menu, it says '1-5 of 6'.

### 30.1.2 Search Medication Types

1. To search for a specific record, enter the criteria in the search field located at the top-right corner.

The screenshot shows a search form. At the top, there is a text input field with the placeholder 'Search' and a green star icon. Below the input field, there is a label 'Medication Type' with an upward arrow icon.



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2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number of records that are returned. Entering "i" returns 3 records of those available.

Medication Type ID ↑	Medication Type	checkbox
1	Inhalation	✓
2	Intravenous	✓
4	Suppository	✓

By entering "in" the search is narrowed further.

Medication Type ID ↑	Medication Type	checkbox
1	Inhalation	✓
2	Intravenous	✓

3. To search for another medication type record, repeat from step 1.

### 30.2 Medication Type Update

Medication types can be loaded into the Medication Type Details form from a search, be amended and the record in the database updated. Please see the [Update Medication Types Procedure](#) for instruction.

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## User Manual

### 31 Update Medication Types - Introduction

#### 31.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to update an error type that has already been entered and requires correction.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- To be able to search Medication Types within PET.
- This feature is only available to a user with administrator rights.

#### 31.2 Process Overview

The administrator will need to log into PET using their valid username and password (See 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Medication Types via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

### 32 Update Medication Types - Procedure

User must have located the medication type via Search Medication Types.

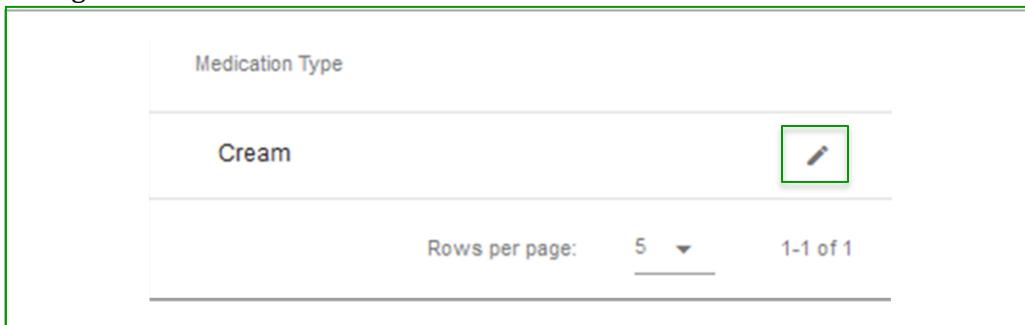
#### 32.1 Update Medication Type – Processing Steps

User must have access to the application.

User must have a valid username and password with administration rights.

##### 32.1.1 To Update a Medication Type:

1. To update details of the medication type, select the record by clicking on the  to the right of the record.



Medication Type	
Cream	
Rows per page: 5 1-1 of 1	



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- The selected record will load into the Medication Type Details form, providing full medication type information

### Medication Type Details

Medication Type

Cream

**SUBMIT**

**CLEAR**

- Amend the record as required.

### Medication Type Details

Medication Type

Emulsion

**SUBMIT**

**CLEAR**

- Select the “Submit” button to update the record in the database. A message stating record has been updated successfully is returned.

### Medication Type Details

Medication Type



Record updated successfully!

**CLEAR**

- A search for “em” shows the record has been updated

em

Medication Type

Emulsion



Rows per page:

5

1-1 of 1

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### 33 Manage Patient Types - Introduction

#### 33.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to manage patient types, i.e. add new patient types.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a manage function to locate records.
- This feature is only available to a user with administrator rights.

#### 33.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Manage Patient Types via the menu bar or the button on the menu page.

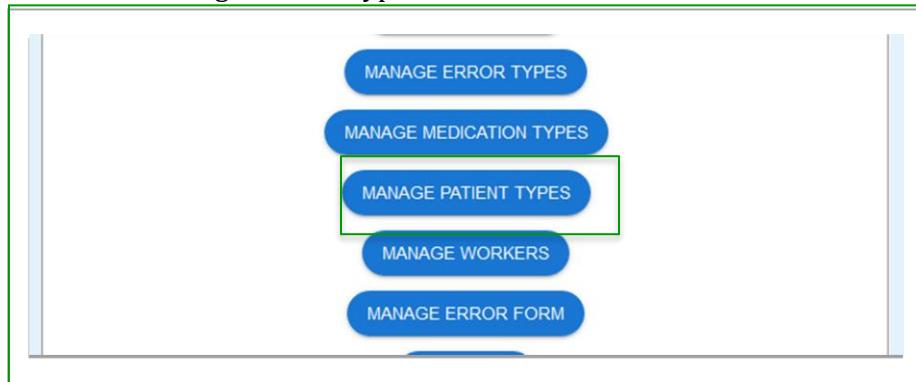
### 34 Manage Patient Types - Procedure

To manage a patient type, the user will need to launch the application, login with a valid user name and password with administration rights. Using the Patient Type Details form, the user can add new patient types.

#### 34.1 Manage Patient Types

##### 34.1.1 Navigate to Manage Patient Types

1. From the Welcome Page, there are two ways to navigate to “Manage Patient Types”:
  - a. Select the “Manage Patient Types” from the list





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- b. From the Menu Bar, hover your mouse over “Manage...” and select “Manage Patient Types”

The screenshot shows a horizontal menu bar with several items: "ADMIN HOME", "LOG ERROR", "SEARCH...", and "MANAGE...". A green rectangular box highlights the "MANAGE..." item and its dropdown menu.

2. The Patient Types Details form will appear.

The screenshot shows a form titled "Patient Type Details". It contains a single text input field labeled "Patient Type" with the value "New Patient Type". Below the input field are two buttons: "SUBMIT" and "CLEAR".

### 34.1.2 Create Patient Types

1. Enter the details of the new Patient Type.

The screenshot shows the same "Patient Type Details" form as above. The "Patient Type" field now contains "New Patient Type". The "SUBMIT" button below the input field is highlighted with a green rectangular border.

2. Select the SUBMIT button and success message appears.

The screenshot shows the "Patient Type Details" form again. A green horizontal bar at the bottom left displays the message "Record added successfully!" next to a small checkmark icon. The "CLEAR" button is visible at the bottom right of the form area.



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3. Go to **Search Patient Types Procedure** for details to search the database to see record just created.

Patient Type ID	Patient Type
6	New Patient Type

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### 35 Search Patient Types - Introduction

#### 35.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for a patient type that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 35.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Patient Types via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

### 36 Search Patient Types - Procedure

To search for a patient type, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate a patient type or multiple patient types relating to the search criteria entered.

#### 36.1 Search Patient Types – Processing Steps

##### 36.1.1 Navigate to Search Patient Types

1. From the Welcome Page, there are two ways to navigate to "Search Patient Types":
  - a. Select the "Search Patient Types" from the list





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- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Patient Types”

The screenshot shows the top navigation bar of the application. It includes links for "ADMIN HOME", "LOG ERROR", and a search field labeled "SEARCH...". A green box highlights the "SEARCH..." dropdown menu. Below the navigation is a large circular logo featuring a caduceus symbol.

2. A list of patient types in the database will appear, showing the first five (5) entries.

Patient Type ID ↑	Patient Type	Actions
1	Discharge	
2	Inpatient	
3	Outpatient	
4	Day patient	
5	Inpatient	

Rows per page: 5 1-5 of 5

- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.

The screenshot shows the bottom right corner of the search results page. It features a dropdown menu labeled "Rows per page" with the value "5" selected, and a status message "1-5 of 5". A green box highlights the dropdown menu.

### 36.1.2 Search Patient Types

1. From To search for a specific record, enter the criteria in the search field located at the top-right corner.

The screenshot shows a search interface. At the top, there is a search bar with the word "Search" and a magnifying glass icon. Below the search bar is a placeholder text area containing the instruction "↑ Patient Type". A green box highlights the search bar.

2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number



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of records that are returned. Entering “d” returns 2 records of those available.

Search Patient Types		d
Patient Type ID ↑		Patient Type
1		Discharge
4		Day patient

By entering “da” the search is narrowed further.

Search Patient Types		da
Patient Type ID ↑		Patient Type
4		Day patient

3. To search for another patient type record, repeat from step 1.

### 36.2 Patient Type Update

Patient types can be loaded into the Patient Type Details form from a search, be amended and the record in the database updated. Please see the [Update Patient Types Procedures](#) for instruction.

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### 37 Update Patient Types - Introduction

#### 37.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to update an error type that has already been entered and requires correction.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- To be able to search Patient Types within PET.
- This feature is only available to a user with administrator rights.

#### 37.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Patient Types via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

### 38 Update Patient Types - Procedure

User must have located the required record via Search Patient Types.

#### 38.1 Update Patient Type – Processing Steps

User must have access to the application.

User must have a valid username and password with administration rights.

##### 38.1.1 To Update a Patient Type:

1. To update details of the patient type, select the record by clicking on the to the right of the record.

Patient Type	Action
Inpatient	
Inpatient y	

Rows per page: 5 1-2 of 2



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- The selected record will load into the Patient Type Details form, providing full patient type information

### Patient Type Details

Patient Type  
Inpatient y

SUBMIT

CLEAR

- Amend the record as required.

### Patient Type Details

Patient Type  
Inpatient private

SUBMIT

CLEAR

- Select the “Submit” button to update the record in the database. A message stating record has been updated successfully is returned.

### Patient Type Details

Patient Type



Record updated successfully!

CLEAR

- A search for “priv” shows the record has been updated

priv

Patient Type

Inpatient private



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## User Manual

### 39 Search Physicians - Introduction

#### 39.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for a physician that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.



New Physicians are added via the Log Error Form.

#### 39.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Physician via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

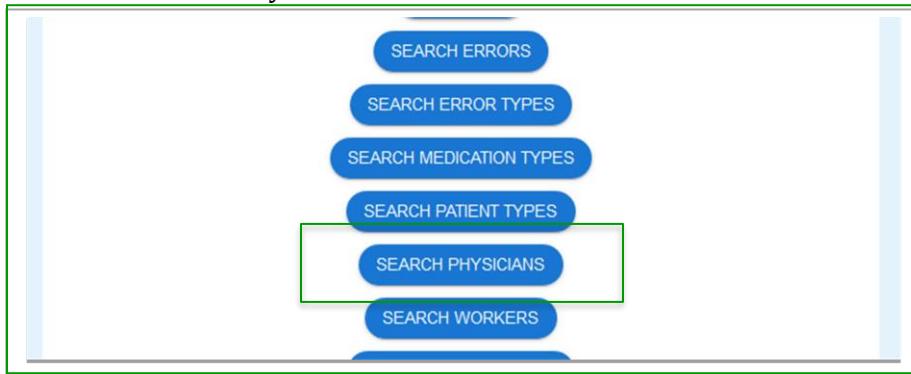
### 40 Search Physician - Procedure

To search for a physician, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate a physician or multiple physicians relating to the search criteria entered.

#### 40.1 Search Physicians – Processing Steps

##### 40.1.1 Navigate to Search Physicians

1. From the Welcome Page, there are two ways to navigate to "Search Physician":
  - a. Select the "Search Physician" from the list





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- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Physician”

The screenshot shows a top navigation bar with three main items: "ADMIN HOME", "LOG ERROR", and "SEARCH...". A green box highlights the "SEARCH..." item. Below the bar is a large circular logo containing a stylized caduceus symbol.

2. A list of physicians in the database will appear, showing the first five (5) entries.

Physician ID	Surname	First Name	Provider No.	Comment
1	Dousip	Marcus	nja86078	
2	Howlett	Sarah	gu909264	Hi there
3	Arulanathan	Alvin	njr98623	
4	David	Mark	apn15385	
5	Schibeci	Alice	afd15591	All fixed

Rows per page: 5 1-5 of 11

- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.

The screenshot shows a dropdown menu labeled "Rows per page" with the value "5" selected. Below the menu, it says "1-5 of 11".

### 40.1.2 Search Physicians

1. To search for a specific record, enter the criteria in the search field located at the top-right corner.

The screenshot shows a search interface with a "Search" input field containing the text "ma" and a magnifying glass icon. Below the search bar are two empty input fields: "Provider No." and "Comment".

2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number of records that are returned. Entering “ma” returns 5 records of those available.



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Search Physicians				
Physician ID ↑	Surname	First Name	Provider No.	Comment
1	Dousip	Marcus	nja86078	
4	David	Mark	apn15385	
7	HOWLETT	Sarah	gui89264	Comment made
8	Dousip	Marcus	nja86078	Not again
11	Dousip	Marcus	nja86078	

Rows per page: 5 | 1-5 of 5 | < >

By entering “marc” the search is narrowed further.

Search Physicians				
Physician ID ↑	Surname	First Name	Provider No.	Comment
1	Dousip	Marcus	nja86078	
8	Dousip	Marcus	nja86078	Not again
11	Dousip	Marcus	nja86078	

Rows per page: 5 | 1-3 of 3 | < >

- To search for another physician record, repeat from step 1.

### 40.2 Physician Update

A physician record can be loaded into the Physician Details form from a search, be amended and the record in the database updated. Please see the [Update Physicians Procedure](#) for instruction.

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## User Manual

### 41 Update Physicians - Introduction

#### 41.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to update a physician that has loaded into the Physician Details Form through the search feature.

- To be able to use PET, the user will need basic knowledge of logging into an online application, completing an online form, and can use the search function of PET.
- This feature is only available to a user with administrator rights.
- This user guide will commence from the last step in User Guide – Search Physicians.

*NOTE: The user must have a legitimate reason for amending/updating a physician record. For example, incorrect spelling, missed adding a comment, etc.*

#### 41.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to follow the User Guide - Search Physicians to search for the required record.

### 42 Update an Physician - Procedure

User must have located the required record via Search Physicians.

*NOTE: ALL fields in the form can be updated to correct information/fields that contain mistakes. Care needs to be taken to ensure correct information is not changed accidentally.*

#### 42.1 Update Physician Record – Processing Steps

User must have access to the application.

User must have a valid username and password with administration rights.

##### 42.1.1 Upload Physician record to Physician Details Form.

1. Select the record to be amended by clicking on the to the right of the record.

Search Physicians				
Physician ID ↑	Surname	First Name	Provider No.	Comment
10	Felid	Greta	vno15953	No ocmment to make



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- 
2. The record loads into the Physician Details Form

### 42.2 Change Details

#### 42.2.1 Locate field needing amendment:

1. Locate the field containing incorrect information. Click in the field and amend the details as required

**Physician Details**

Physician Surname Field
Physician First Name Greta
Provider Number vno15953
Physician Comment No ocmmment to make

**SUBMIT**   **CLEAR**

In the example above, the Surname and the Physician Comment have spelling errors.

**Physician Details**

Physician Surname Field
Physician First Name Greta
Provider Number vno15953
Physician Comment No comment to make

**SUBMIT**   **CLEAR**



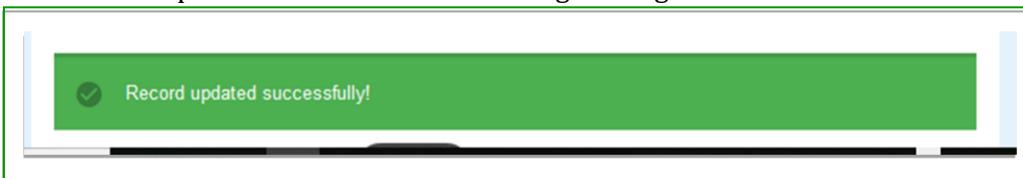
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- 
2. Select SUBMIT to update the record.

A screenshot of a user interface showing two buttons: a blue 'SUBMIT' button and a grey 'CLEAR' button. The buttons are rounded ovals with white text. They are positioned side-by-side on a light-colored background.

3. A successful update will receive the following message.



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## User Manual

### 43 Manage Workers - Introduction

#### 43.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to manage workers, i.e. add new workers.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a manage function to locate records.
- This feature is only available to a user with administrator rights.

#### 43.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Manage Workers via the menu bar or the button on the menu page.

### 44 Manage Workers - Procedures

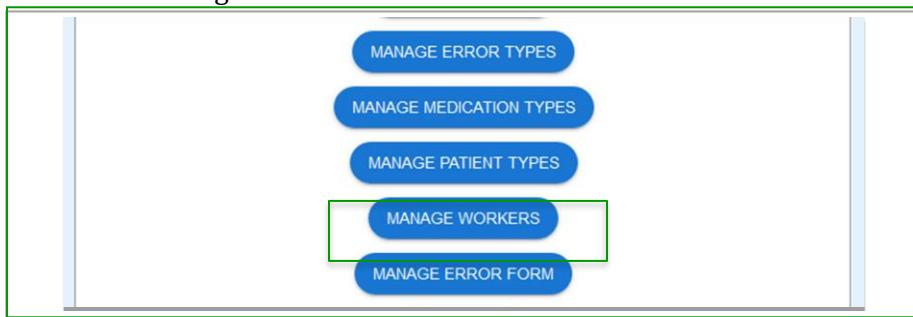
To manage workers, the user will need to launch the application, login with a valid user name and password with administration rights. Using the Workers Details form, the user can add new workers.

#### 44.1 Manage Workers – Processing Steps

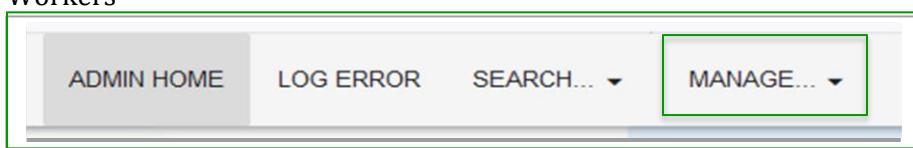
##### 44.1.1 Navigate to Manage Workers

1. From the Welcome Page, there are two ways to navigate to “Manage Workers”:

- a. Select the “Manage Workers” from the list



- b. From the Menu Bar, hover your mouse over “Manage...” and select “Manage Workers”





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2. The Workers Details form will appear.

**Worker Details**

Worker's ID number \_\_\_\_\_

Worker's First Name \_\_\_\_\_

Worker's Surname \_\_\_\_\_

Worker's Position \_\_\_\_\_

Is this worker active?

Yes       No

**SUBMIT**    **CLEAR**

### 44.1.2 Create New Worker

1. Enter the details of the new Worker. The worker id must **not** have been used before.

**Worker Details**

Worker's ID number  
5825

Worker's First Name  
David

Worker's Surname  
Morcom

Worker's Position  
Uni Student

Is this worker active?

Yes       No

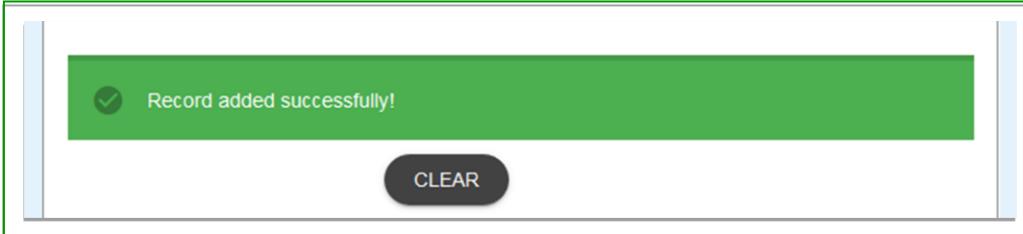
**SUBMIT**    **CLEAR**



# PHARMACY ERROR TRACKER

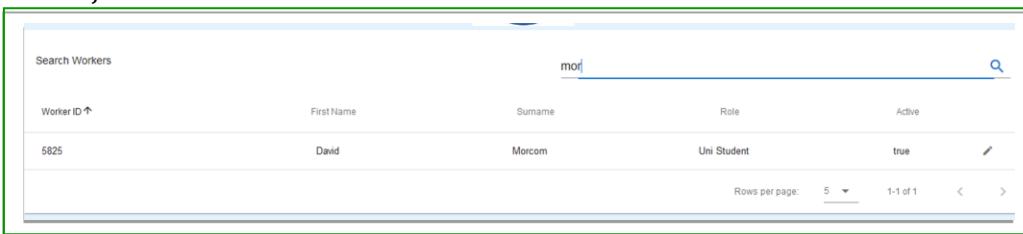
## User Manual

- 
2. Select the SUBMIT button and success message appears.



A screenshot of a success message dialog box. It features a green background with a white border. Inside, there is a small checkmark icon followed by the text "Record added successfully!". At the bottom right of the dialog is a dark blue "CLEAR" button.

3. Go **Search Workers Procedure** for details on how to search the database to see record just created.



A screenshot of a "Search Workers" interface. At the top, there is a search bar with the placeholder "Search Workers" and a magnifying glass icon. Below the search bar is a table with columns: Worker ID, First Name, Surname, Role, and Active. A single row is visible, showing data for a worker with ID 5825, first name David, surname Morcom, role Uni Student, and active status true. At the bottom of the interface, there are pagination controls: "Rows per page: 5", "1-1 of 1", and navigation arrows.

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# PHARMACY ERROR TRACKER

## User Manual

### 45 Introduction

#### 45.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to search for a worker that has already been entered.

- To be able to use PET, the user will need basic knowledge of logging into an online application and using a search function to locate records.
- This feature is only available to a user with administrator rights.

#### 45.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Search Worker via the menu bar or the button on the menu page.
- The user is to enter a search criterion.

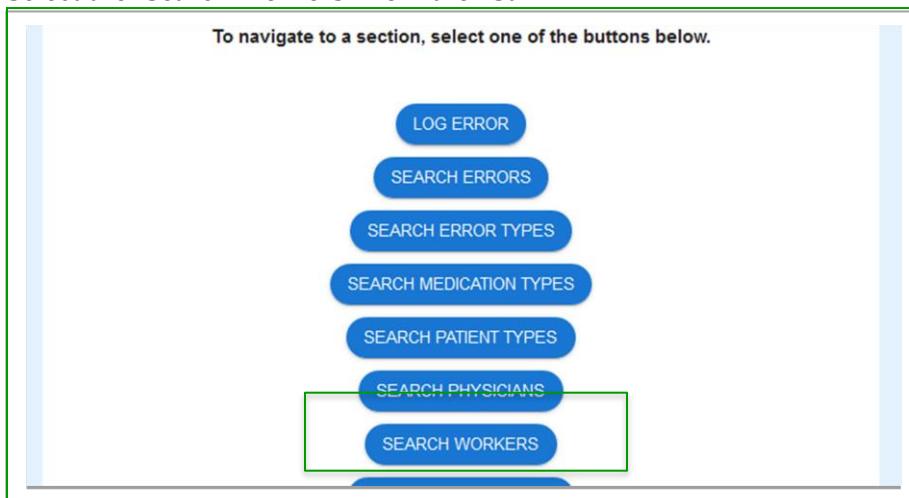
### 46 Search Workers - Procedure

To search for a worker, the user will need to launch the application, login with a valid user name and password with administration rights. Using the search bar, the user will be able locate a worker or multiple workers relating to the search criteria entered.

#### 46.1 Search Workers – Processing Steps

##### 46.1.1 Navigate to Search Workers

1. From the Welcome Page, there are two ways to navigate to “Search Workers”:
  - a. Select the “Search Workers” from the list

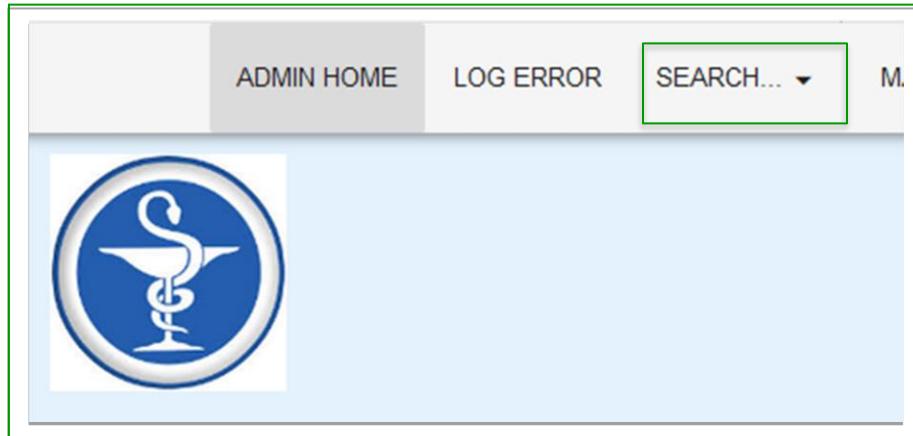




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- b. From the Menu Bar, hover your mouse over “Search...” and select “Search Workers”



2. A list of workers in the database will appear, showing the first five (5) entries.

Search Workers				
Worker ID ↑	First Name	Surname	Role	Active
1234	Pat	Smith	Pharmacist	true ✓
2345	Timothy	Meyers	Pharmacist Trainee	true ✓
3456	Jessica	Noble	Supervisor	true ✓
4567	Amanda	Stait	Pharmacist	true ✓
5678	Wang	Shu	Pharmacist	true ✓

- a. To change the number of records being shown, click on the drop-down arrow at the bottom-right corner and select number of records you wish to see.

Rows per page:  1-5 of 5

### 46.1.2 Search Workers

1. To search for a specific record, enter the criteria in the search field located at the top-right corner.

Search

Role Active

2. The search criteria entered will find any record that matches that criteria in the fields shown in the headings. Entering a more detail criteria will narrow the number of records that are returned. Entering “3” returns three (3) records of those



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available.

Search Workers				
Worker ID ↑	First Name	Surname	Role	Active
1234	Pat	Smith	Pharmacist	true
2345	Timothy	Meyers	Pharmacist Trainee	true
3456	Jessica	Noble	Supervisor	true

Rows per page: 5 | 1-3 of 3 | < >

By entering “3456” the search is narrowed further.

Search Workers				
Worker ID ↑	First Name	Surname	Role	Active
3456	Jessica	Noble	Supervisor	true

Rows per page: 5 | 1-1 of 1 | < >

3. To search for another worker record, repeat from step 1b.

### 46.2 Worker Update

A worker record can be loaded into the Worker Details form from a search, be amended and the record in the database updated. Please see the [Update Workers Procedure](#) for instruction.

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### 47 Update Workers - Introduction

#### 47.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to update a worker that has loaded into the Worker Details Form through the search feature.

- To be able to use PET, the user will need basic knowledge of logging into an online application, completing an online form, and can use the search function of PET.
- This feature is only available to a user with administrator rights.
- This user guide will commence from the last step in User Guide – Search Workers.

*NOTE: The user must have a legitimate reason for amending/updating a worker record. For example, incorrect spelling, missed adding a comment, etc.*

#### 47.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to follow the User Guide - Search Workers to search for the required record.

### 48 Update Workers - Procedures

User must have located the required record via Search Workers.

*NOTE: All fields except the Worker ID in the form can be updated to correct information/fields that contain mistakes. Care needs to be taken to ensure correct information is not changed accidentally.*

#### 48.1 Locate Worker Record – Processing Steps

User must have access to the application.

User must have a valid username and password with administration rights.

##### 48.1.1 Upload Worker record to Worker Details Form

1. Select the record to be amended by clicking on the to the right of the record.

Search Workers				
Worker ID ↑	First Name	Surname	Role	Active
1234	Pat	Smith	Pharmacist	true

2. The record loads into the Worker Details Form



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### 48.2 Update Worker Details

#### 48.2.1 Locate field needing amendment

1. Locate the field containing incorrect information. Click in the field and amend the details as required. *Worker's ID cannot be changed*

**Worker Details**

Worker's ID number  
1234

Worker's First Name  
Pat

Worker's Surname  
Smith

Worker's Position  
Pharmacist

Is this worker active?

Yes       No

**SUBMIT**    **CLEAR**

In the example above, the worker's position should be Locum.

**Worker Details**

Worker's ID number  
1234

Worker's First Name  
Pat

Worker's Surname  
Smith

Worker's Position  
Locum

Is this worker active?

Yes       No

**SUBMIT**    **CLEAR**



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2. Select SUBMIT to update the record.

3. A successful update will receive the following message.

### 48.3 Field Information

#### 48.3.1 Worker's ID Number

1. This ID number cannot be amended once it has been entered.
2. If incorrect, the worker will need to be made inactive and re-entered using the "**Manage Workers** Procedures".

#### 48.3.2 Is this Worker Active?

1. If the worker is no longer working for the organisation, change this field to "No".
  - a. Workers that are not active will not appear in the list of workers in the Log Error Form.
2. If an inactive worker recommences employment with the organisation, change this field to "Yes"
  - a. Active workers will appear in the list of workers in the Log Error Form.

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### 49 Metabase - Introduction

#### 49.1 Scope and Purpose

The purpose of this user guide is to provide instructions on how to use the reporting feature - Metabase.

- This feature is only available to a user with administrator rights.

#### 49.2 Process Overview

The administrator will need to log into PET using their valid username and password (see 5.1).

- The Welcome Page will be presented on successful login.
- The administrator will need to select Reporting via the menu bar button Reports or the Reporting button on the menu page.

### 50 Metabase - Procedures

Metabase is an open source business intelligence tool. It lets you ask questions about your data and displays answers in formats that make sense, whether that's a bar graph or a detailed table.

Your questions can be saved for later, making it easy to come back to them, or you can group questions into great looking dashboards. Metabase also makes it easy to share questions and dashboards with the rest of your team. This user guide is based on the user guide provided by the Metabase website:

<https://www.metabase.com/docs/v0.18.1/users-guide/start.html>

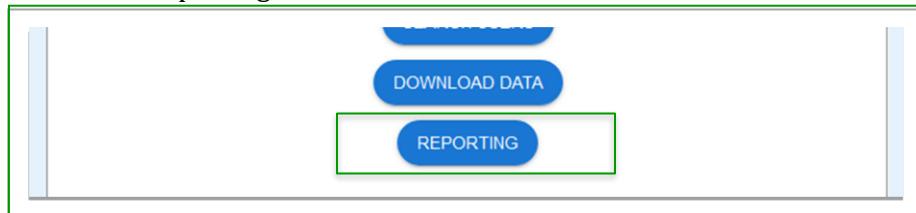
To access Metabase, you will need to access PET through an administrator login.

#### 50.1 Metabase – Processing Steps

Metabase has been provided as a reporting tool for PET. Data lists as well as graphics are available for the user. These reports can be download and shared with others.

##### 50.1.1 Navigate to Metabase

1. From the Welcome Page, there are two ways to navigate to "Metabase":
  - a. Select the "Reporting" from the list





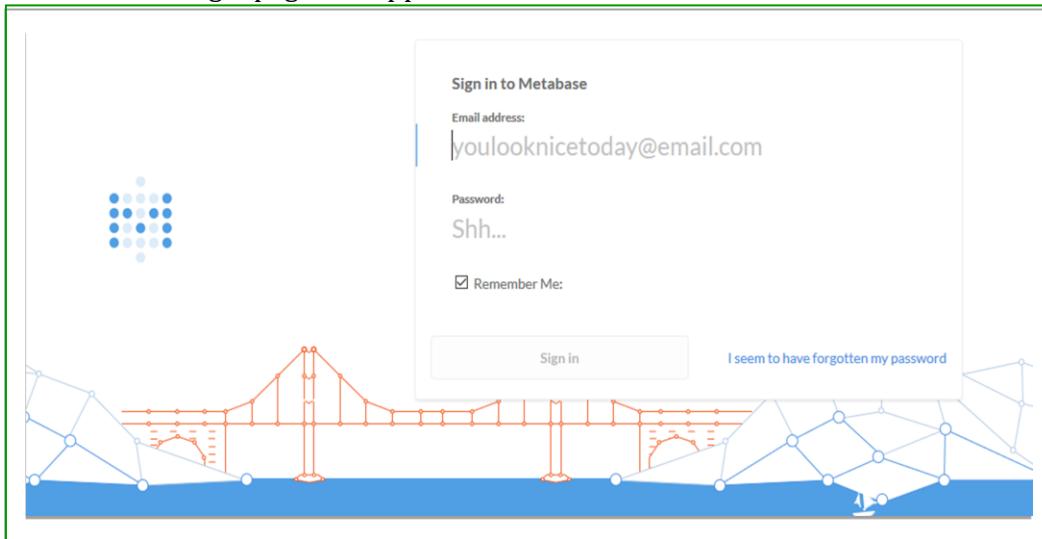
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- b. From the Menu Bar, hover your mouse over “Reports...” and select “Reporting”



2. The Metabase login page will appear.



### 50.1.2 Login to Metabase

1. Enter the login and password to access Metabase.

Sign in to Metabase

Email address:

pharmacon@gmail.com

Password:

[REDACTED]



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2. Select the enter and you will be taken to the welcome page.

The screenshot shows the welcome page of the Pharmacy Error Tracker. At the top, there's a navigation bar with links for Dashboards, Questions, Pulses, Data Reference, and a prominent 'New Question' button. Below the navigation is a blue header bar with the text 'Greetings, Team' and a smiley face icon. The main content area is titled 'Activity' and lists three recent actions: 'You added a question to the dashboard - Error Data - All Contents' (3 months ago), 'You saved a question about Error' (3 months ago), and 'You created a dashboard' (3 months ago). To the right of the activity list is a sidebar with a 'SETUP TIP' for 'Set up email' and a 'RECENTLY VIEWED' section containing links to 'Error Data - All Contents', 'Dashboard', 'Errors, Basic Info', 'Errors Per Day', and 'Errors, Grouped by Location'.

3. A direct selection of a previously saved activity can be made from the list on this page.
4. To see the dashboard, select “Dashboards” from the menu bar.

The screenshot shows the top navigation bar of the Pharmacy Error Tracker. It features five main buttons: 'Dashboards' (which is highlighted with a green dashed border), 'Questions', 'Pulses', 'Data Reference', and 'New Question'. The 'Dashboards' button is the active one, indicating it has been selected.

5. Saved dashboards will appear.

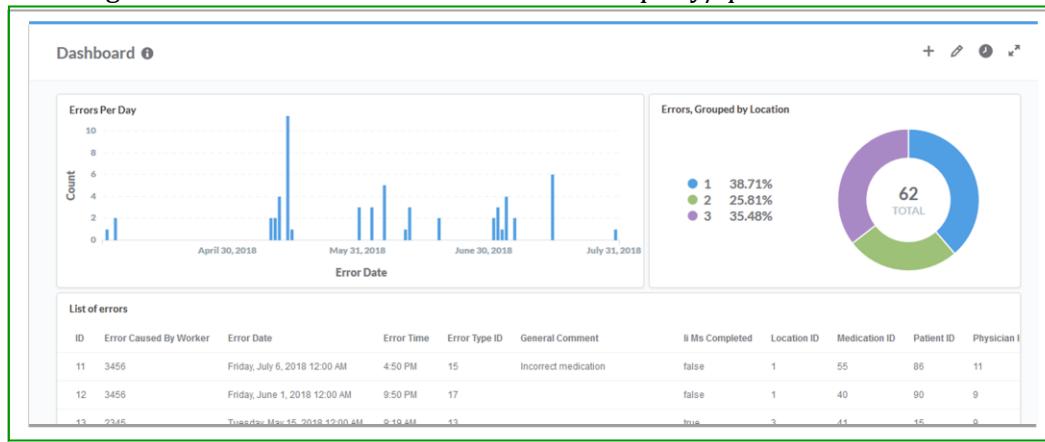
The screenshot shows the 'Dashboards' page of the Pharmacy Error Tracker. The top navigation bar is identical to the previous screenshot. The main content area is titled 'Dashboards' and includes a 'Filter this list...' search bar. Below the search bar, there are two dashboard cards: 'Dashboard' (created on JUN 2, 2018) and 'Error Data - All Contents' (created on JUN 7, 2018).



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6. Selecting a dashboard will show the results of the query/queries.



7. Selecting Questions from the menu bar will show the details of the saved questions previously asked of the database.

Filter this list...	All questions
Errors Per Day Shows the amount of errors over time.	Created 3 months ago by Team Pharmacon
Errors, Basic info Shows errors sorted by ID, showing day, time, patient name and general comment.	Created 3 months ago by Team Pharmacon
Errors, Grouped by Location Shows errors grouped by location.	Created 3 months ago by Team Pharmacon



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#### 50.1.3 Metabase URL Links

1. Metabase provides a user guide for the various functions available.

- | What Metabase does
- | The basics of database terminology
- | What Metabase questions are made up of
- | How to visualize the answers to questions
- | Sharing and organizing your saved questions
- | Creating dashboards
- | Adding filters to dashboards
- | Creating charts with multiple series
- | Using Pulses for daily emails
- | Get answers in Slack with Metabot
- | Some helpful tips on building your data model



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2. URL links to these various functions are listed below

<https://www.metabase.com/docs/v0.18.1/users-guide/01-what-is-metabase.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/02-database-basics.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/03-asking-questions.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/04-visualizing-results.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/05-sharing-answers.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/06-dashboards.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/07-dashboard-filters.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/08-multi-series-charting.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/09-pulses.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/10-metabot.html>

<https://www.metabase.com/docs/v0.18.1/users-guide/11-data-model-reference.html>

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