Module ICT3715

INFORMATION AND COMMUNICATION TECHNOLOGY PROJECT

STUDENT NUMBER (Student completes)									
5	8	0	3	4	0	9	9		

IDENTITY NUMBER (Student completes)												
9	6	0	4	5	5	4	4	0	8	7		

No handwritten assignments will be accepted.

INSTRUCTIONS:

Complete this Front Page (page 1)

Complete the Plagiarism Pledge (page 2). Your Assessment (assignment) will not be assessed without this.

After you have completed the front page with your information, the plagiarism pledge, and Assessment (Assignment) 1 with Section A to C, save the document as a PDF document.

You must save your Assessment (Assignment) 1 as a PDF document, or it will not be assessed.

Keep a copy of the original should there be problem with the upload.

PLAGIARISM PLEDGE BY THE STUDENT

1. I have read Unisa's plagiarism policy.

2. I understand Unisa's plagiarism policy.

3. I agree to abide by Unisa's plagiarism policy.

4. I have read the direct copying, plagiarism, and "patch-writing" document.

5. I understand what direct copying, plagiarism, and "patch-writing" is.

6. I undertake to avoid copying directly, plagiarism and patch writing.

7. All academic work, written or otherwise, that I submit is expected to be the result of my

own skill and labour.

8. I understand that, if I am guilty of the infringement of breach of copyright/plagiarism or

unethical practice, I will be subject to the applicable disciplinary code as determined by

Unisa.

9. The marker has the right to refuse to assess the assignment and the system if plagiarism

is detected.

10. [Here you can add your references that you have used e.g., information taken from the

Internet]

Student name and Surname: RESSICK KEAMOGETSOE MASHISHI

Student number: 58034099

R.K MASH1SH1

06/05/2024

Student signature:

Date:

Table of Contents

1	Assess	ment 1	4
		ction A [4]	
	1.1.1	Programming Languages (3)	
		Database (1)	
	1.2 Se	ction B [28]	4
		Activity Diagram (16)	
	1.2.2	ERD Diagram (12)	5
	1.3 Se	ction C (Backup and Recovery for the Database and Programming code) [4]	5
	1.3.1	Backup and Recovery Software for the Database (2)	5
	1.3.2	Backup and Recovery process for the Programming code and your Portfolio	
	(assess	ments) (2)	5

1 Assessment 1

1.1 Section A [4]

1.1.1 Programming Languages (3)

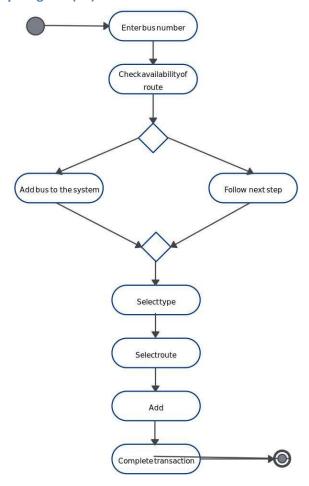
Programming Languages are; html and CSS with a client side language
JAVASCRIPT to make a visual appealing web form, and the information
submitted in the placeholders needs to know where to go. I will need a web
server with an SQL database and PHP programming language to process the
record from the web form and save it in my database.

1.1.2 Database (1)

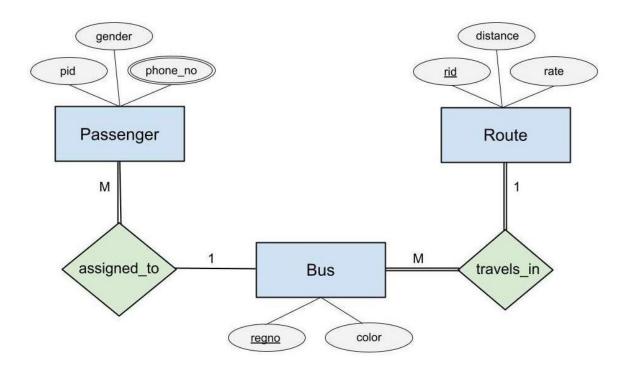
 I am going to use MYSQL for database management system, because a database housed in a DBMS, which provides the functionality to create and work with a database.

1.2 Section B [28]

1.2.1 Activity Diagram (16)



1.2.2 ERD Diagram (12)



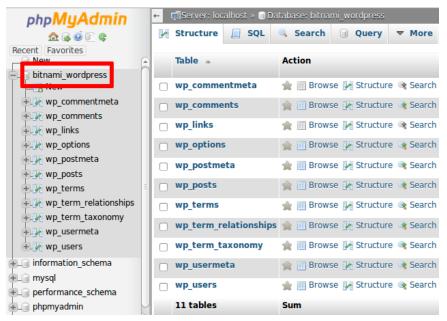
1.3 Section C (Backup and Recovery for the Database and Programming code) [4]

1.3.1 Backup and Recovery Software for the Database (2)

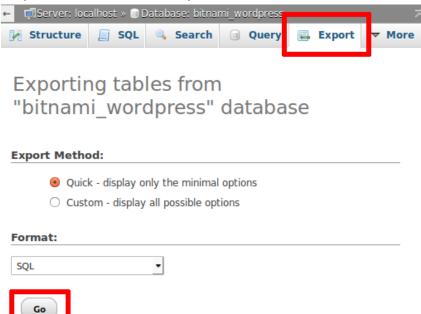
- XAMPP includes phpMyAdmin, an open source, browser-based tool for managing MYSQL database servers.
- SQL Backup Master. Back up your SQL server database to any number of popular cloud storage services.

1.3.2 Backup and Recovery process for the Programming code and your Portfolio (assessments) (2)

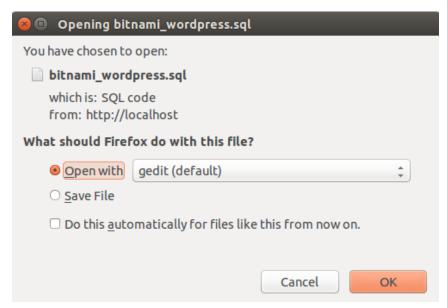
- 1. BACK-UP PROCESS(using XAMPP)
- Browse to http://localhost/phpMyAdmin or http://127.0.0.1/phpMyAdmin. If required, log in using your database access credentials. On a fresh XAMPP installation without any changes, you can log in as root with a blank password.
- Select the database to be backed-up from the list in the left navigation pane.



- Select the "Export" command in the top navigation bar.
- On the resulting page, select "Quick" as the export method and "SQL" as the output format. Click "Go" to proceed.

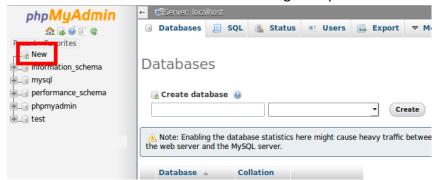


• phpMyAdmin will export the database to a text file as a series of SQL statements. Once done, the browser will prompt you to download it to the desktop. This text file is your backup, so store it safely!



2. RECOVERY-PROCESS

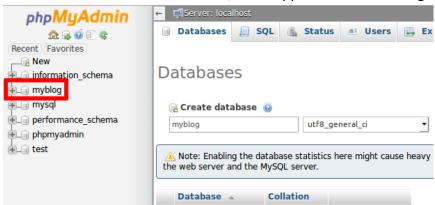
- Browse to http://localhost/phpMyAdmin or http://127.0.0.1/phpMyAdmin. If required, log in using your database access credentials.
- Select the "New" command in the left navigation pane.



On the resulting page, enter a name for the new database (in this case, myblog).
 Select the collation "utf8_general_ci". Click "Create" to create the database.



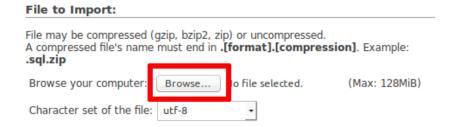
Once the database is been created, it will appear in the left navigation pane.



- Select the new database from the left navigation pane. In the resulting page, select the "Import" command in the top navigation bar.
- Click the "Browse..."button and select the backup file created earlier. Click "Go" to proceed.



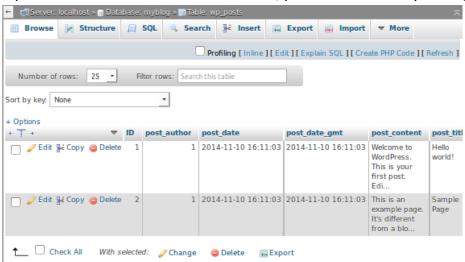
Importing into the database "myblog"



 phpMyAdmin will import the data from the backup file. Once complete, you will see a screen indicating the status of the import.



If you browse the contents of the database, you should now see your original data.



USING COMMAND-LINE TOOLS

To back-up a MySQL database from the command line, follow these steps:

- Ensure that the MySQL server is running.
- Open a new Linux terminal.
- Use the command below to export the contents of the selected database. In this
 example, we're backing up the WordPress database, which is named
 bitnami_wordpress, to a file named bitnami wordpress.sql. This text file is your
 backup, so store it safely!

/opt/lampp/bin/mysqldump --user=root --password="" bitnami_wordpress > bitnami wordpress.sql

At a later point, you may wish to restore the database. To restore the data to a fresh MySQL database from the command line, follow these steps:

- Ensure that the MySQL server is running.
- Open a new Linux terminal.
- Use the mysql client to create a new, empty database to hold your data. In this
 example, the new database is named myblog.

/opt/lampp/bin/mysql --user=root --password="" -e "CREATE DATABASE myblog"

Remember to use the correct database access credentials in the command. On a fresh XAMPP installation without any changes, you can usually log in as root with a blank password.

 Use the mysql client to import the contents of the backup file into the new database.

/opt/lampp/bin/mysql --user=root --password="" --database=myblog < bitnami_wordpress.sql

The command-line client will now import the data from the backup file.

If you browse the contents of the database, you should now see your original data.

You should now update your application's configuration and point it to your newly-created database. For example, with the Bitnami WordPress module, you will need to edit the wp-config.php file in the apps/wordpress/htdocs/subdirectory of your XAMPP installation directory. Within this file, you will need to update the DB NAME constant to use the new database name.

```
c?php
/**
 * The base configurations of the WordPress.
 *
 * This file has the following configurations: MySQL settings, Table Pre
 * Secret Keys, WordPress Language, and ABSPATH. You can find more infor
 * by visiting {@link http://codex.wordpress.org/Editing_wp-config.php E
 * wp-config.php} Codex page. You can get the MySQL settings from your w
 *
 * This file is used by the wp-config.php creation script during the
 * installation. You don't have to use the web site, you can just copy t
 * to "wp-config.php" and fill in the values.
 *
 * @package WordPress
 */
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress
 */
define('DB_NAME', 'bitnami_wordpress');
/** MySQL database username */
define('DB_USER', 'bn_wordpress');
```