

Task 2

The **purpose** of this Module is to **design and develop an Online Bus Registration system for a Community**. The Community is a School in Gauteng - Centurion. The name of the school is Strive High Secondary School.

Note: You are not allowed to develop any other system or use any other data that was not prescribed or provided to you.

As a third-year level student, you are then **requested to design, develop, implement, test, and demonstrate the system for your final examination**.

The system must be designed and developed as an online system, that is both web-based and mobile-friendly. *For demonstration purposes, the system and database must be hosted locally.*

Preparing for the MIS Reports for Assessment 3

Part of any good system is the development of **formal MIS (Management Information System) Reports**.

For this part of the system, refer back to the modules **ICT2642, ICT3641, ICT3722** and any other module where reporting was discussed.

In this system, the purposes of the **MIS reports** are to provide on a daily and weekly basis feedback to the School. These MIS Reports will help them to make informed decisions based on the current situation and will be used in future development. The MIS Reports will assist the School to monitor the progress of the availability of student making use of the bus services. A MIS Report is NOT a looooong list of data, rather in MIS Reports the data is often collected from various sources and then summarised and visualised.

Management Information System (MIS) Reporting

MIS reporting is essential for the School.

MIS reports involve the preparation of information that can be used by the school on a daily, weekly, and long-term basis.

An MIS report often uses two or more tables to extract the data and present it in a dashboard format.

For purposes required by the School, the following reports must be presented in the dashboard:

Daily MIS reports

- The learners (all information of the learner) that are on the waiting list for bus transport
- The learners (all information of the learner) that will be making use of the bus transport on a specific day for each of the busses, also indicating if it is for the morning or the afternoon
- Must have search (drill-down) functionality

Weekly MIS reports

- The total learners that will be making use of the bus transport during a specific week for each of the busses, also indicating if it is for the morning or the afternoon
- Must have search (drill-down) functionality

One more MIS report

- Whilst you are developing the system, you will come across the need for additional MIS reports
- Add one more MIS report. Remember an MIS report is NOT a LOOOONG list of data

Creating the Graphical User Interfaces for the MIS Reports

You are going to start the coding thereof for your system.

This is also now the opportunity to create the GUI's for it. You may use your own initiative on how you are going to display the MIS Reports, example as a dashboard.

For each of the MIS Reports, have a screen dump as well as the code and SQL that you've used to generate and display the MIS Report to be included in your final Portfolio.