**Task 1a**

A relational database would be suitable for FreshBurgersNow mainly because of all the various datapoints needed. With the use of a simple GUI, customers can send the necessary information to the organisation to fulfil orders.

* With the amount of data there is for one order, and the number of orders that people can place, having a database that stores this information but also refers to various datapoints to maximise efficiency and customer satisfaction allows for a robust system for taking orders.
* Streamlining the experience. The customer can input their information, which can be processed by the database system. The relevant information can be passed onto the different departments so they can fulfil their portion of the order. E.g. the kitchen can access what the customer wants on their burger or they want any sides/extras. The department responsible for deliveries will be able to access the information regarding the location to deliver the food to.
* In the event of an accidental error, whether its from the user or organisation. It can be investigated and potentially resolved from looking back into the database. The ability to assess what happened and who is responsible for the error.

**Task 1b**

* **Security –** With a large database system, its robust centre of information. It can be easily referred back to if need be, and used to reliably manage operations. In the event of a loss of information in one department, if the database’s information is spread across the company, it can always be referred to.
* **Accountability** – If operations have failed somewhere within the company, it is possible to track the problem from where it had started. If an employee is responsible for a mishap, it can be recorded. Additionally, if this happens on multiple occurrences, it could be indicative of where the problem within the company lies.
* **Integrity –** Given the relationships between data within the database, there is a lot of information that refers to different aspects of the company. Having a large database creates a backbone for the company to rely on.

Graphical user interface, application

Description automatically generated**Task 1c**

Delivery information form – Requires user to input details for delivery, including basic addressing information, alongside the preferred time customers want their delivery.

Graphical user interface, text, application, email

Description automatically generated

Contact Us form – Customer fills in fields for addressing purposes, with the option to receive marketing emails if they so choose. Followed by a field for the customers inquiry. Field made to bigger to accommodate a longer response from the customer.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generatedOrder Information form – Customer can choose what they would like in their burger, with the option to add extra(s), sides and a drink. This information will be necessary for the kitchen especially, along with order history in case of a mistake.

Register form – Customer ability to create a FBN account. Email field with a password field, and another password field to confirm the validity and security of it.

Graphical user interface, text, application, email

Description automatically generated

Login form – Much like the register form, it takes the email and password used from signup to log into the FBN account.

**Task 1d**

**Report A: Cook Report**

Cooks will have to deal with multiple orders of many varieties. The cooks will be sent orders through our rigid database system, detailing exactly how the customer wants their food. This could be in reference to extras within in the burger or potential allergens to certain foods. Keeping the kitchen, a clean, healthy, and safe environment is important, both for the sake of the customer and colleagues. Shifts will be organised by management on a rota base schedule on a weekly basis, be sure to check in advance before the new week, especially if you are not available that day.

**Order Information**

**Whoppa x 1**

**Extras:Bacon x 1**

**Large Fries x 1**

**Coke Colla x1**

**\*\*ALLERGY (NUTS)\*\***

**Mini Cheeseburger x 4**

**Fries x 2**

**Fonta x 2**

**Kitchen Staff Roles (Mon)**

**Sorley – Cook (morning)**

**Paul – Prep**

**Harry – Dishwasher**

**Gianna – Cook (evening)**

**Hugo – Cleaner**

**Report B: Delivery drivers**

Delivery drivers will be working closely with customers, ensuring the quality of food is meeting standards, along with giving it to the customer in a timely manner. Working closely with the order staff, and the database you will fulfil orders by delivering them to the customer. Before departure, you will assess the order is correct and matches the details the customer inputted, and their addressing information to deliver the food.

**Order Information**

**Whoppa x 1**

**Extras:Bacon x 1**

**Large Fries x 1**

**Coke Colla x1**

**Address**

**123 Telford Avenue**

**EH5 8WG**

**Edinburgh ASAP**

**Report C: Shift-leaders**

Shift-leaders will be responsible for the workers scheduling. Using the database, shift leaders will assess the days and hours the companies workers are contractually obliged to do. With that data, organising a weekly rota based schedule to coincide with the workers arrangements, and done within prior to weekend before the next week. Time is of the essence its vital to assess scheduling to keep the company moving forward efficiently.

**Workers Shifts Allocation**

**Kitchen**

**Sorley – 40hrs, 5 days;**

**Fiona – 32hrs, 4 days;**

**Hugo – 16hrs, 4 days;**

**Ordering Staff**

**Caleb – 20hrs, 3 days;**

**Monica – 28hrs, 5 days;**

**Alex – 36hrs, 5days;**