

Take Home Test 2 Scenario

In a small town in the “Utopian land”, there is a Townhall. The Townhall provides multiple services to the residents. They would like to automate some of the services including:

1) *management of the library*, 2) *a small cafeteria* (online orders can be made through an app) that they have inside the town hall, and 3) the *marriage register*.

Each new **user** in the system will be given a username and a password.

The town hall consists of 10 **employees**. The library consists of about 3000 **books**.

For getting a **book**, users can self-scan a book. Upon returning the book, the librarian will scan the book to update the system.

For the cafeteria, a small inventory of current **items** will be managed, which will be visible to users on the app. Once someone buys an item (either online or in-person), the cashier will scan the item, which will help update the inventory records.

Please state your assumptions while attempting the questions