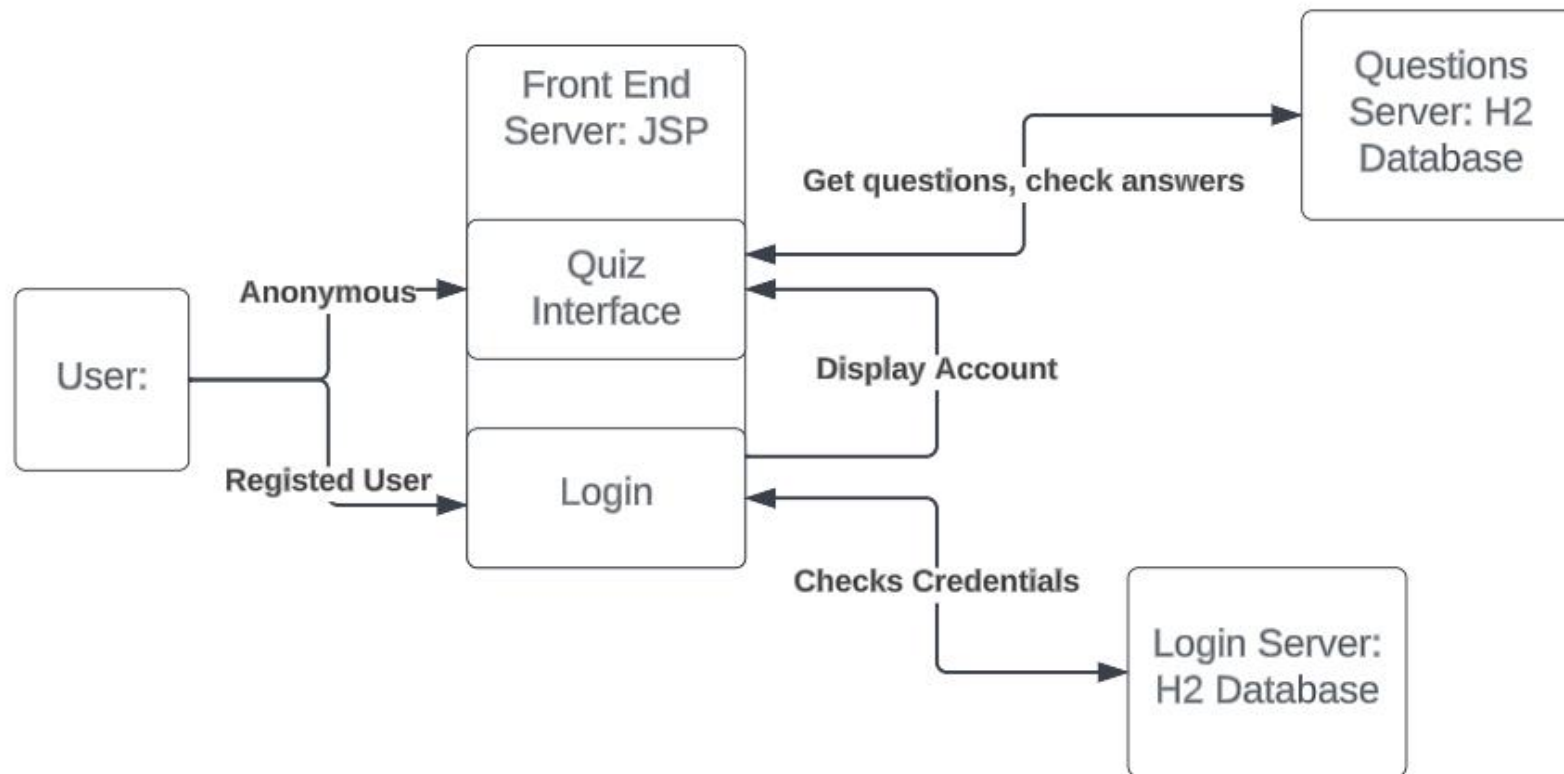


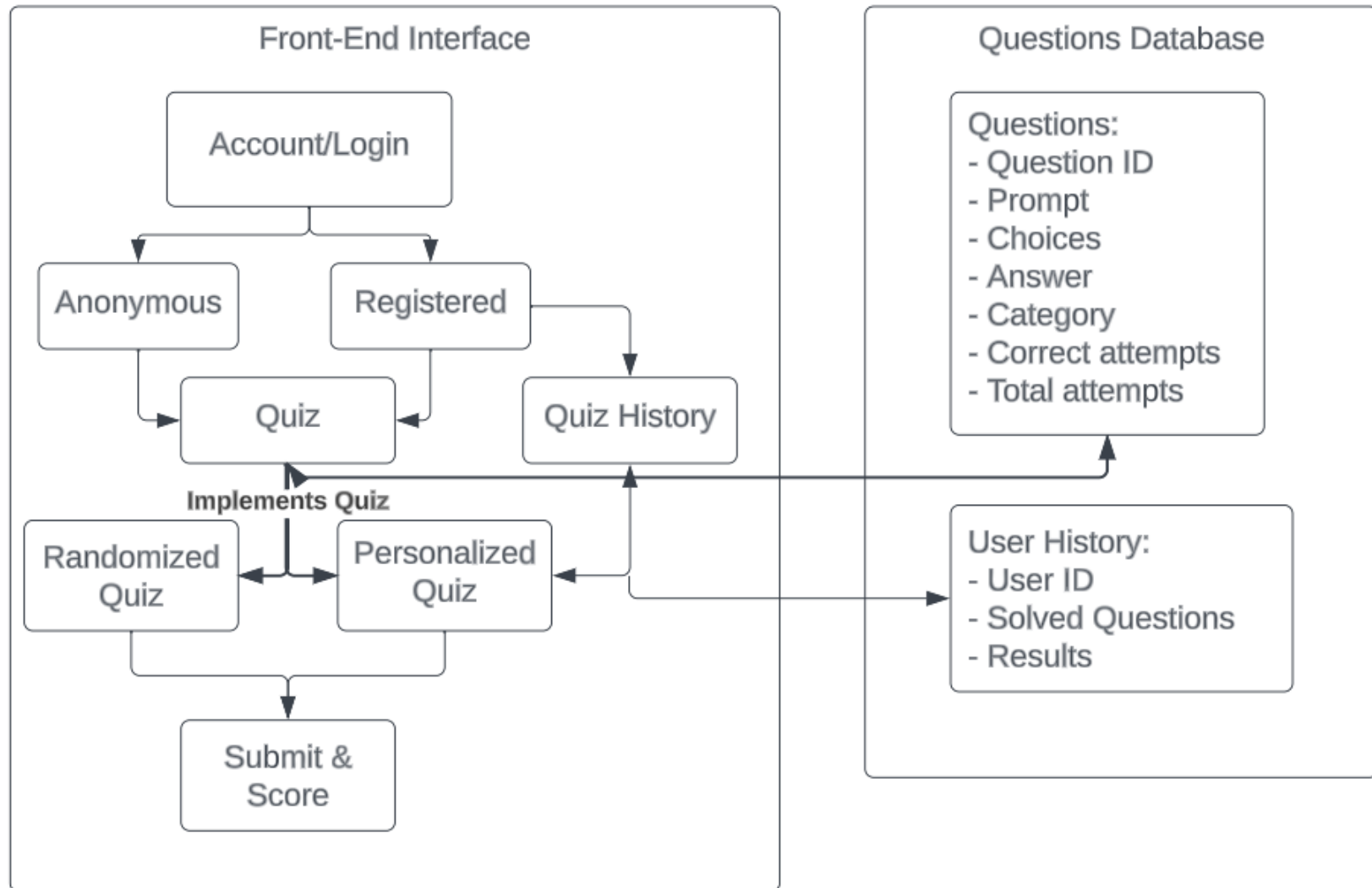
## CSE 2102: Lab 2 – Quiz System Architecture Diagrams

Tom McCarthy

### Architecture Overview



## More Detailed View of Complex Components



Considerations when getting questions:

For an anonymous user, questions will be selected randomly from the pool of questions.

For a registered user, there are multiple strategies to pick relevant questions.

One way is to let the user decide:

- Allowing the user to select a category from which the questions will be picked.
- Allowing the user to select the difficulty of questions, based on total correct / total attempts.

The quiz system can also “learn” from prior quizzes:

- Picking questions based on the distribution of categories of the user’s past quizzes. (i.e. if a user has done mostly Java and Discrete Math quizzes recently, then most of the questions on a new quiz will be from those categories.)
- Using previous performances to select questions of a certain difficulty (i.e. if a user only got half of the History questions correct in recent quizzes, choose History questions which have a higher overall correct rate.)