UML

Use Case: Predictions

Primary Actor: Registered User

Scope: Server/Database

Level: User Goal

Brief: A registered user connects to the database via the online portal to retrieve a prediction data set for a specific timeframe in order to make sure there is enough inventory for said timeframe.

Stakeholders: Food pantry management, DBA.

Post conditions: More food is requested by pantry if the predictions are higher than the inventory. Database is updated as more food comes in.

Preconditions: There will be no previous data for the first semester. At the second-year mark, user will have an account. Inventory will have a quantity >= 0 in database system.

Triggers: DBA/user would have successfully entered data/orders throughout the first year of the pantry.

Basic Flow (Similar to Place an Order):

Year One:

- 1. User/student log in.
- 2. Fill out required fields in form.
- 3. Press the submit button.
- 4. Database updated.
- 5. Pantry staff prepares food for pickup.
- 6. User picks up order.

Year Two:

- 7. DBA/pantry management log in.
- 8. Fill out date to make predictions.
- 9. Check inventory against predictions.
- 10. Purchase/request more food accordingly.
- 11. Update inventory when food is received.

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API
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1. Log in process;
"action": "log in"
"username": "User1"
"password": "***"
}
=>
"success": "true"
"message": "Welcome username!"
}
OR
"success": "false"
"message": "Incorrect username and/or password. Please try again."
}
2. Fill in Form (For Predictions Only);
"action": "Fill required fields"
"field x (Date From)": "some date 1"
"field Y (Date To)": "some date 2"
}
=>
"success": "true"; "there is data for the dates entered"
"action": "Predictions are shown to user"
}
```

```
OR
```

```
{
    "success": "false"; "there is no data for the dates entered"
    "message": "There is no record data for the dates entered, please enter a new date set."
}
```