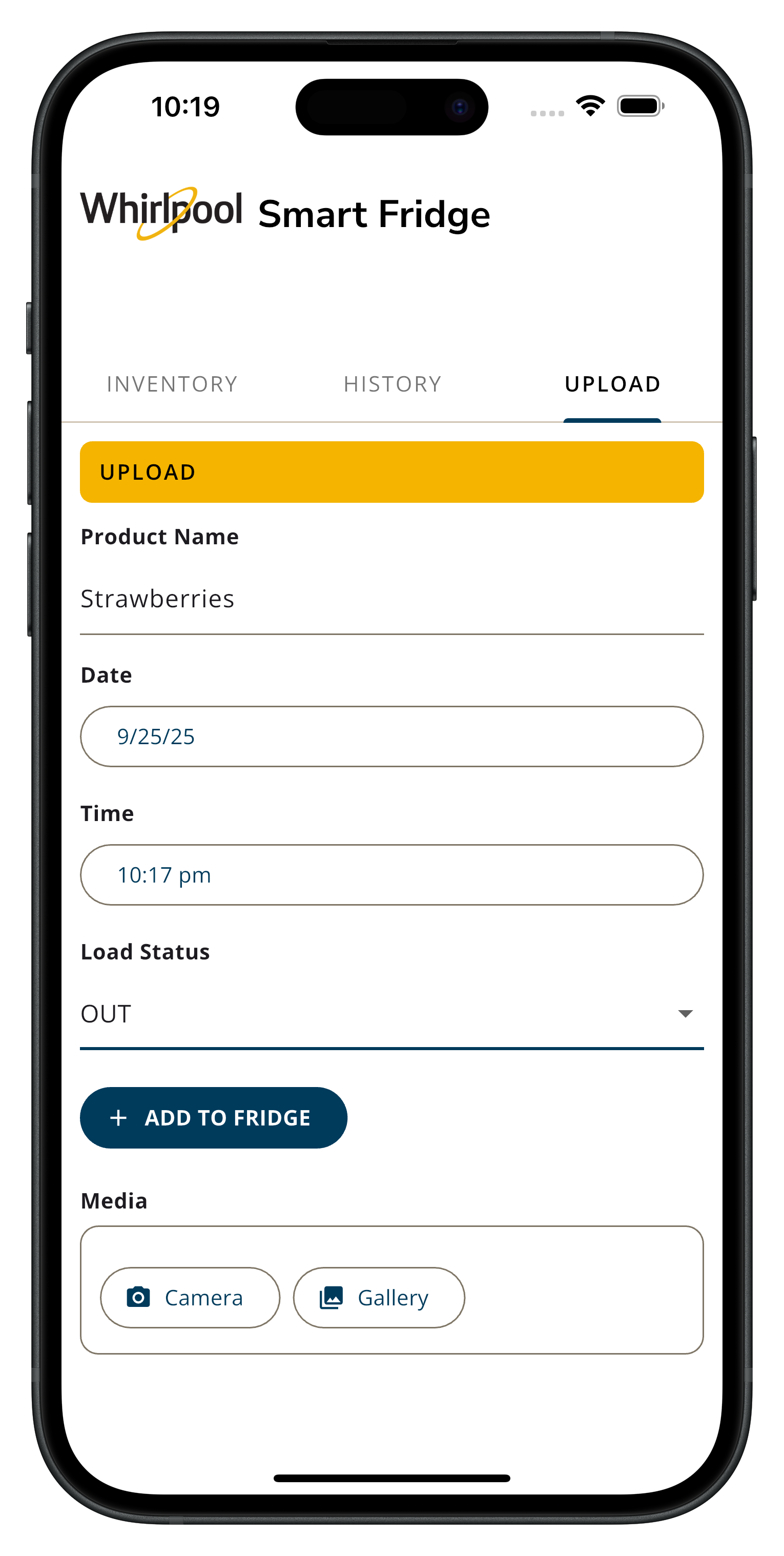
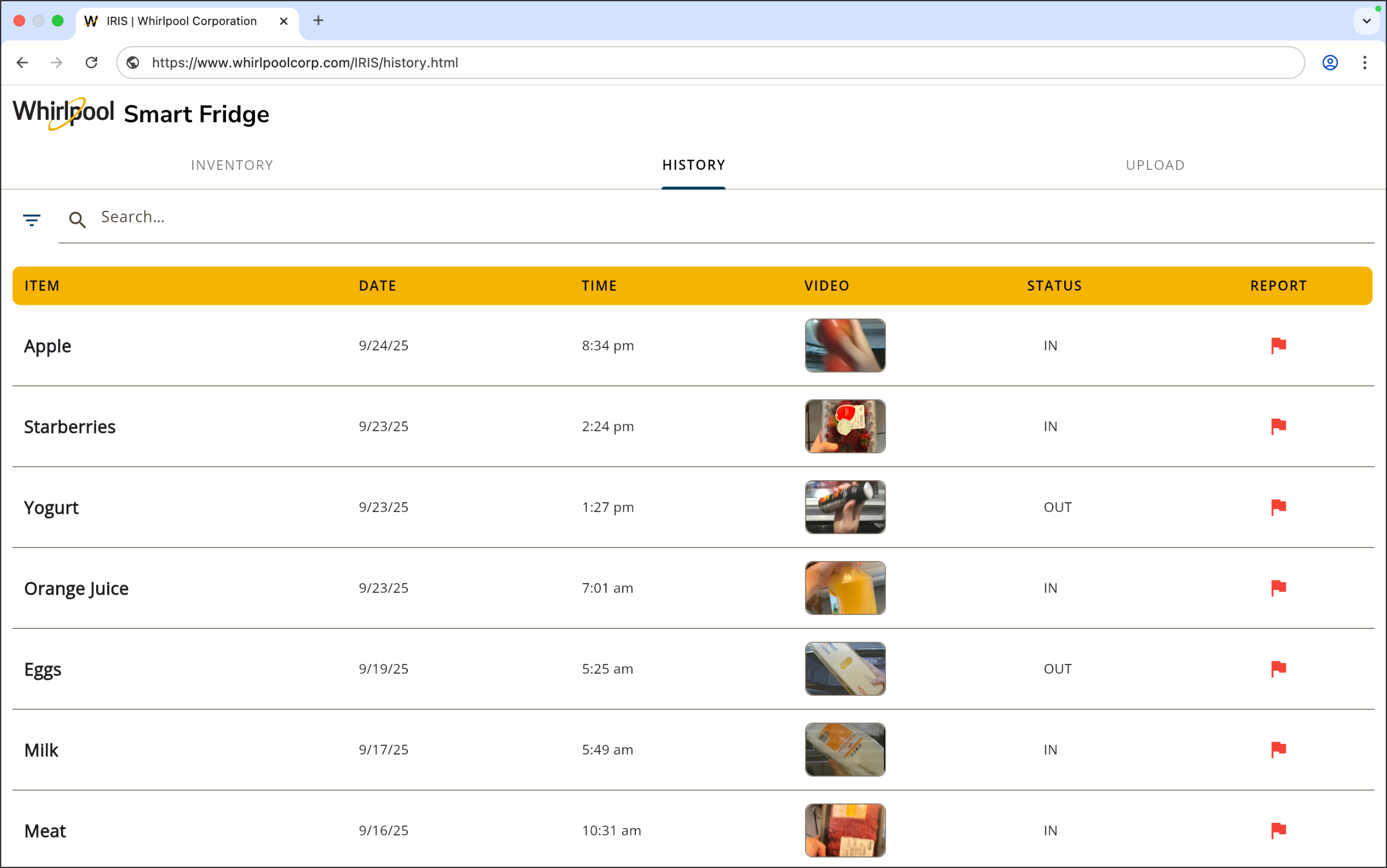
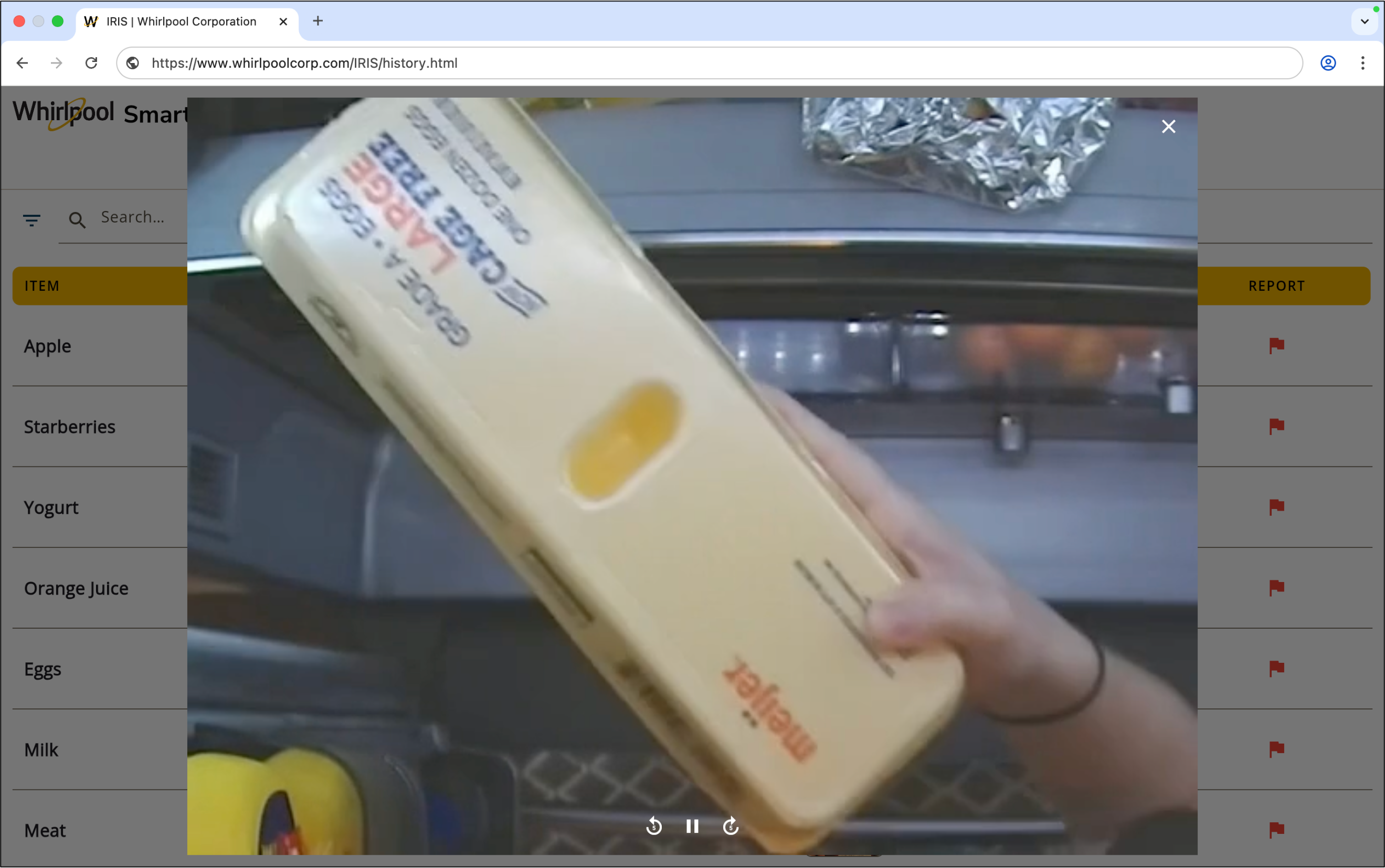
Design Day Booklet Team Page







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Whirlpool

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Whirlpool Corporation, headquartered in Benton, Harbor, Michigan is a global home appliance manufacturer with approximately $17 billion in annual sales, 40 manufacturing and research centers, and 44,000 employees. Whirlpool’s mission is to improve satisfaction and engagement with its home appliances.

Buying groceries is a common chore that consists of tedious planning. However, there is a common occurrence of items getting lost in the fridge. This results in food waste and repurchasing of food which hurts the buyer’s budget and creates the stress of needing to manually track groceries.

The multi-platform inventory and tracking system solves this problem by providing an automated up-to-date inventory with what’s currently in their fridge, and what has been added and removed from the fridge.

When the user opens their fridge, a camera with an aerial view scans the product in the user’s hand. From there, the software analyzes what kind of product it is and determines whether the product is being placed in or removed from the fridge, the time and date of the user interaction with the item. In addition, users can manually add their own grocery data that consists of the same information as the automated objects, and their input will update their inventory in real time.

As the inventory is updated with current items in the fridge, the users can see a history of objects that the user loads or unloads into the fridge.

The software is built with Flutter and Dart for the user interface with a python and Firebase backend. Our software also utilizes YOLOv8 object detection model.

3200/3300 Hallway | Third Floor, Computer Science and Engineering 8:00 a.m. – Noon | CSE498

Whirlpool Corporation

Intelligent Recognition and Inventory System (IRIS)