Project Charter - Team 19

BoilerTrack : Purdue's Centralized Lost and Found

Team Members:

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Problem Statement:

Currently, Purdue University lacks a centralized lost and found system, forcing students to visit individual helpdesks in multiple buildings to hopefully find their items, causing inefficiencies and delays in recovering lost items. Our web app will provide a unified platform where university staff can report items that were lost but have been found by other students, creating a real time database of lost items. In turn, students who have lost their precious items can just search the website to find where their lost items could be. Unlike the current physical approach, our solution will streamline the process by centralizing information, reducing the time and effort needed to retrieve lost belongings.

Project Objectives:

- Create a webpage that displays all the lost items that have been entered by university staff
- Listings for lost items to include data that helps users to easily find their items
- Allowing user to pre-register their belongings into the system
- Adding a lost item request form that notifies the user when a lost item matching their entered description/keywords pops up
- Social media integrations to increase reach of unclaimed items
- Implementing a "Claim Dispute Resolution" incase users feel someone else took their items

Stakeholders:

Users - University Staff and Students who have lost their items

Developers - Anitej Waghray, Daivik Ghosh, Daniel Benes-Magana, Mihika Sharma, Shlok Bairagi, Shreya Laxmi Nagendra

Project Coordinator - Qi Li

Project Owners - Anitej Waghray, Daivik Ghosh, Daniel Benes-Magana, Mihika Sharma, Shlok Bairagi, Shreya Laxmi Nagendra

Project Deliverables:

- A React based front-end web app that allows user to view a feed of unclaimed items and add request for lost items.
- A pre-registration system where users can register their valuable personal items in the app and assign each item a unique QR code for faster verification.
- A SQL lite database that keeps track of all missing items, pre-registered items and their metadata.
- A front-end interface for desk staff to enter lost items into the database, including the item name, description, location, etc.
- Integrating an item recognition model that pre-enters keywords of the unclaimed items.
- A dispute system that is backed by a publicly available history of claimed items by student ID verification.
- An analytics page visualizing trends of lost items via heatmaps and other graphs.
- API integration with social media to embedded unclaimed item listings from the unclaimed items feed.