

BoilerBot

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Project Charter

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1 Team 1 Members

1. Aditya Dhingra
2. Rahul Pai
3. **Eehita Parameswaran (Team Leader)**
4. Kush Rustagi
5. Devaunsh Sambhav
6. Yash Shiroya

2 Problem Statement

Planning ahead for a semester and staying ahead of the game is extremely important for Purdue students. We intend to build **BoilerBot**, a Facebook Messenger chat bot that answers course related questions and efficiently provides all things *Purdue* at users fingertips. BoilerBot uniquely provides an aggregation of Purdue services by giving users quick access to useful information in one window. Thus, the bot will serve as an everyday companion to enhance the student experience at Purdue.

3 Project Objectives

- Develop a Messenger bot that allows students to query various course details, scheduling information, dining court schedules and Purdue Crime statistics.
- Make the conversation between users and the bot seamless using Natural Language Processing techniques to better understand user's intent.
- Use Heroku to host our service and efficiently respond to queries for multiple users.
- Accept popular feature requests from Purdue students.
- Support bot with Node.js backend that handles user requests, parses relevant segments into queries that access various APIs(Purdue.io etc.) and scrape in case of crime statistics.

4 Stakeholders

- **Users:** Purdue students
- **Project Coordinators:** The GTA/TA's our team reports to for this project.
- **Team Leader:** Eehita Parameswaran
- **Software Developers:** Aditya Dhingra, Rahul Pai, Eehita Parameswaran, Kush Rustagi, Devaunsh Sambhav, Yash Shiroya
- **Project Owners:** Aditya Dhingra, Rahul Pai, Eehita Parameswaran, Kush Rustagi, Devaunsh Sambhav, Yash Shiroya

5 Deliverables

- A Messenger bot that can answer certain questions of a Purdue University student relating to:
 - Courses offered during a semester
 - Section instructors
 - Food available in dining courts
 - Location and timings of dinings courts
 - Daily crime statistics
- Use Natural Language Processing APIs to understand intent of message and query relevant information from our database.
- Python and Node.js server-side algorithms to efficiently process information.
- A database that can safely store user credentials.
- Heroku cloud platform to host our service and process queries.