CS 203 Lab Assignment 1

Data Collection using OpenTelemetry and Jaeger

Team Members:

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Github Repository: https://github.com/Soham-Gaonkar/CS 203 Labs

Features

- 1. Logging and Tracing of Page Visits
 - 1. Screenshot 1, 2: Homepage and Course Catalog page.



Welcome to the Course Information Portal

The Course Information Portal is designed to streamline and enhance the student experience by providing a comprehensive platform for exploring and understanding the courses offered by the university or department. This user-friendly portal consolidates essential course details in a single, accessible location, empowering students to make informed decisions about their academic journey.

Features of the Course Information Portal

Course Catalog: Browse a complete list of available courses, organized for easy navigation.

Course Details: View in-depth information for each course, including instructor names, semester offerings, detailed course content, prerequisites, grading components, and links to external resources.

Department Information: See which department offers each course, helping students align their selections with their academic focus.

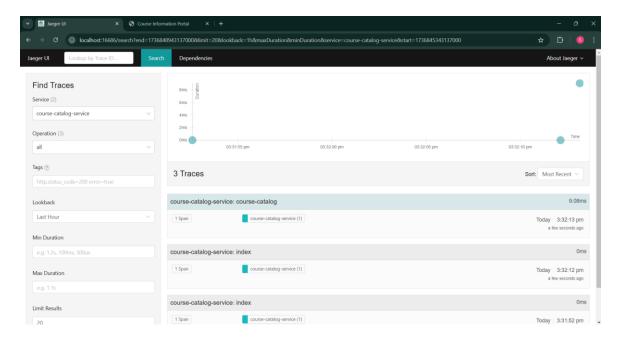
Why Use This Portal?

By centralizing key course information, the Course Information Portal makes it easier for students to explore their options and plan their academic path. Whether you are registering for your first semester or choosing electives for your final year, this portal is your trusted companion in navigating the academic landscape with confidence.

Explore the Course Catalog



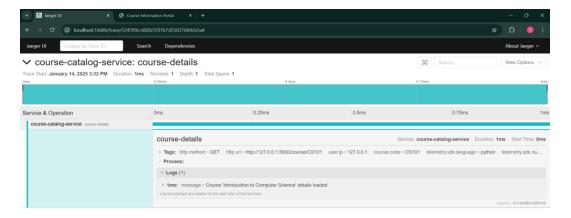
2. Screenshot 3: Trace Collected on Jaeger of homepage and course catalog visit.



3. Screenshot 4: Viewing Course Details.



4. Screenshot 5: Trace Collected on Jaeger of course page visit.

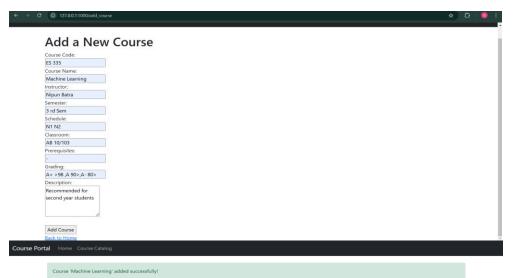


2. Adding Courses

1. Screenshot 6: Incomplete Form Submission.



2. Screenshot 7, 8, 9: Confirmation message after successfully adding a course.



Course Catalog

- Add Course

 Introduction to Computer Science C5101

 Software and Tools for Al C5 203

 Intro to Data Science 326

 Probability and Random Processes 333

 Intro to Date Extinal Engineering 113

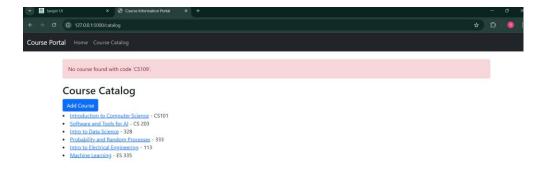
 Machine Learning ES 335



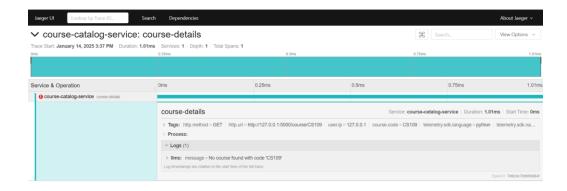
3. Screenshot 10: Log of successful course addition.

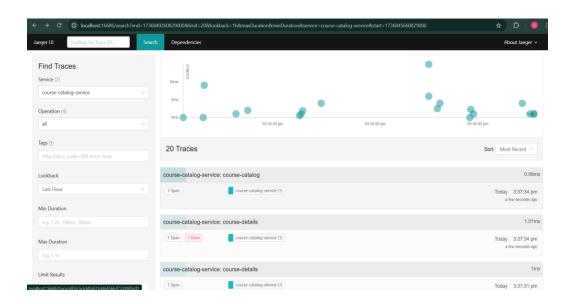
2. Invalid Page Requests and Error Handling

1. Screenshot 10: Invalid Course ID.



2. Screenshot 11: Tracing data for invalid course request.





3. Screenshot 12: Invalid Page Handling.





4. Screenshot 13: Structured Logs Saved in JSON Format

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| Column | C
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3. Metrics Data

1. Screenshot 14: Total number of requests made to each endpoint.

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| Section | Comments |
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2. Screenshot 15: Processing time for each endpoint.

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"maner transcating time town in process requests",
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3. Screenshot 16: Error Count for each endpoint.