



Deploying a NodeJS application to Elastic Beanstalk directly & using Code Pipeline

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Elastic Beanstalk

- ▶ AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.
- ▶ You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. At the same time, you retain full control over the AWS resources powering your application and can access the underlying resources at any time.
- ▶ There is no additional charge for Elastic Beanstalk - you pay only for the AWS resources needed to store and run your applications.

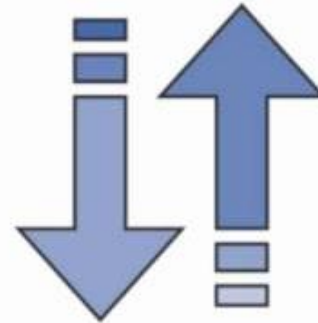
Elastic Beanstalk Benefits



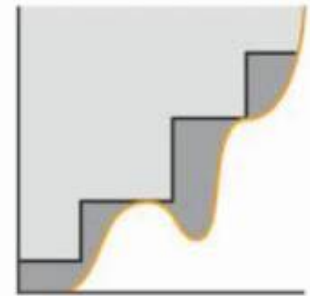
Fast & simple
to begin



Developer
productivity



Impossible
to outgrow



Complete
resource control

No additional charge to use.
You only pay for underlying AWS resources (i.e.: EC2 instances, S3, etc.)

AWS Code Pipeline

- ▶ AWS CodePipeline is a fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. CodePipeline automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define. This enables you to rapidly and reliably deliver features and updates. You can easily integrate AWS CodePipeline with third-party services such as GitHub or with your own custom plugin. With AWS CodePipeline, you only pay for what you use. There are no upfront fees or long-term commitments.

Benefits:

- ▶ Rapid Delivery
- ▶ Configurable Workflow
- ▶ Easy to Integrate

MongoDB Atlas

- ▶ MongoDB Atlas is the global cloud database service for modern applications. Deploy fully managed MongoDB across AWS, Azure, or GCP. Best-in-class automation and proven practices guarantee availability, scalability, and compliance with the most demanding data security and privacy standards. Use MongoDB's robust ecosystem of drivers, integrations, and tools to build faster and spend less time managing your database.

Benefits:

- ▶ Global clusters for world class applications
- ▶ Secure for sensitive data
- ▶ Designed for developer productivity
- ▶ Reliable for mission-critical workloads
- ▶ Built for optimal performance

What is a Campus Tour Guide?

- ▶ As the name suggests, I have built an application using NodeJs which helps collect valuable feedback of different restaurant situated on the campus of various Universities in the United States.
- ▶ The number of students in the united states is increasing substantially this application will be of tremendous help to the entire student community as well as the faculties community.
- ▶ Food is the necessity of everyone, and no one would like to have something that is not at all tasty. In such ka kind of scenario, the person would feel like being ripped off. In order to avoid all such situation this application will be of great help. Below are the statistics.

Hit the books, then the road

Visas issued, thousands

H-1Bs: —

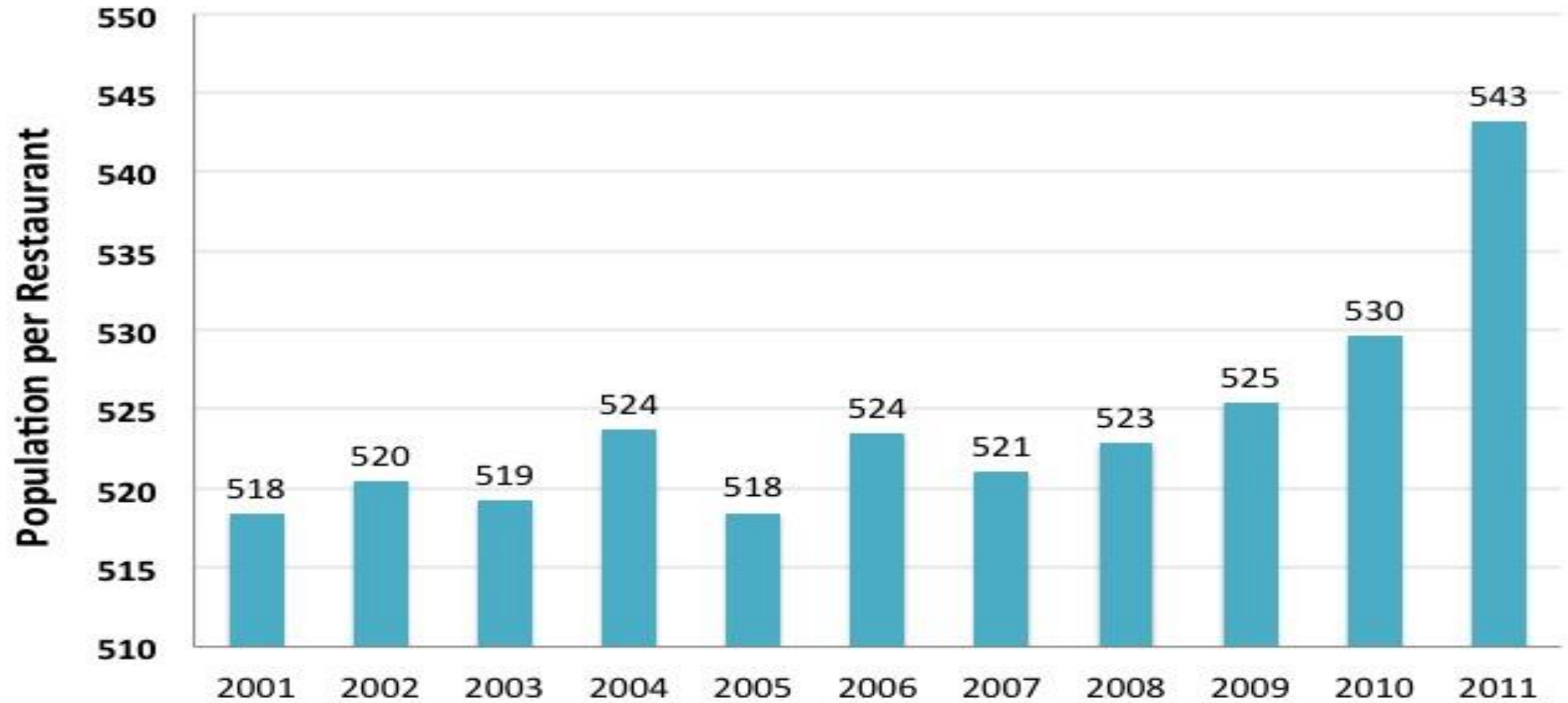
F-1s: China Asia & Oceania (excl. China)
Europe, Africa & other Americas



Source: US Department of State

Student Statistics

U.S. Population per Restaurant



Source: The NPD Group, U.S. Census Bureau & White Hutchinson Leisure & Learning Group



User Story

Problem Statement

To develop an application, where users can get the feedback of other users about the restaurants on their university campus and get to know about popular cuisines or dish to try.

Audience

The entire student & faculty community of different universities in the United States.

RESTAURANTS LIST

Stevens Institute of Technology



PIERCE CAFE

ADDRESS: Wesley J. Howe Center, 2nd Floor
Pierce Cafe features Peet's Coffee & Mighty Leaf Tea, Grab & Go salads, sandwiches, snacks, smoothies, desserts & more. Don't forget to try our new daily drink specials!



PIERCE DINING HALL

ADDRESS: Wesley J. Howe Center, 2nd Floor
Pierce Dining Hall is the central dining hall for the Stevens Dining Program. Focused on fresh, quality food served in a relaxing dining atmosphere, Pierce Dining Hall not only offers some of the finest foods in college dining but easily one of the best views.



RED GREY DINING

ADDRESS: Burchard Building, 1st Floor
In addition to the everyday convenience of Grab & Go and Starbucks Proudly Brew Coffee, Red & Gray features a local New Jersey built franchise Green Zebra. Green Zebra offers an assortment of freshly made wraps and salads featuring homemade organic dressings.

PIERCE CAFE







Pierce Cafe features Peet's Coffee & Mighty Leaf Tea, Grab & Go salads, sandwiches, snacks, smoothies, desserts & more. Don't forget to try our new daily drink specials!

Comments:

"The chicken sandwich is a must-try."
- Sanam

My PROFILE

ACCOUNT INFO

FIRST NAME	<input type="text" value="Sanam"/>	
LAST NAME	<input type="text" value="Jena"/>	
USER NAME	<input type="text" value="sjena007"/>	
E-MAIL	<input type="text" value="sjena@stevens.edu"/>	

YOUR WISHLIST



PIERCE CAFE

INTERNAL
FACTORS

STRENGTHS (+)

- Clear Idea of the food served
- Authenticated Reviews
- Good Collection of Restaurants

WEAKNESSES (-)

- No Automatic Recommendation of Restaurant
- Need to onboard more no of Universities

EXTERNAL
FACTORS

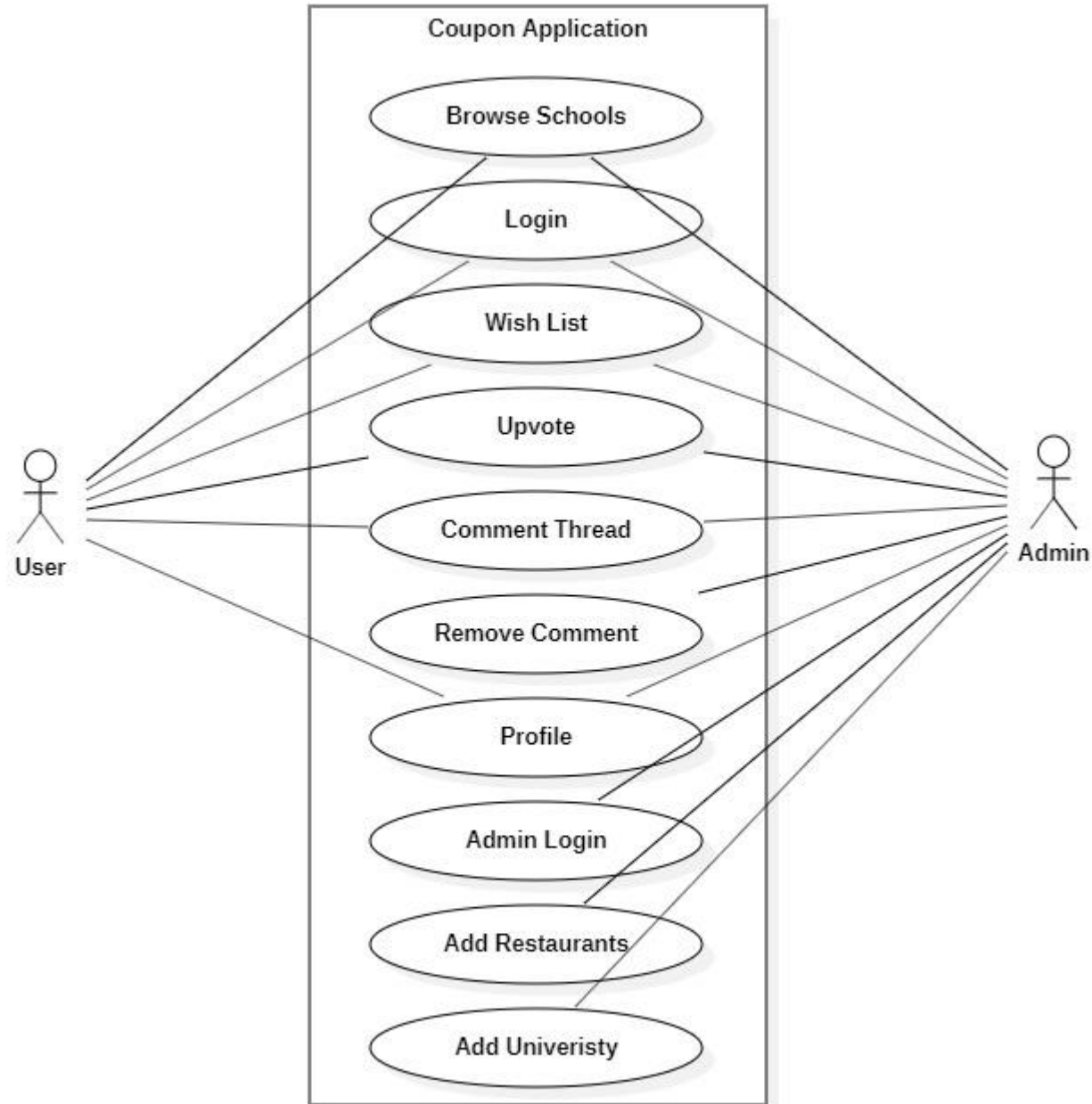
OPPORTUNITIES (+)

- Automatic Recommendation of Restaurant
- Integrating the web service as a plugin

THREATS (-)

- Competitor
- Direct Purchase / Store Purchase

USE CASE DIAGRAM





**THANK YOU
FOR YOUR
ATTENTION**

ANY QUESTIONS ?

NO? GREAT! BYE