

Abroad Outlay Prediction System

S Jayachandran ^[1], P.M Kavitha ^[2], Aravind R ^[3], S Hari ^[4],
Pr Nithishwaran ^[5]

^{[1],[2]} Assistant professor, Department of Computer Applications, SRM Institute of Science and Technology, Ramapuram, Chennai,

^{[3],[4],[5]} Student, Department of Computer Applications, SRM Institute of Science and Technology, Ramapuram, Chennai.

ABSTRACT

The Abroad Outlay prediction system is required when preparing to study in abroad. Using the Abroad Out prediction system, we can estimate how much need to spend in a country as an international student. In this project we have separated into four modules such as Accommodation, Food, Essentials, Transportation. The user wants to select the options such as country, city side by side the calculation will be performed. The user will be able to see the monthly total cost of the user given countries. Abroad outlay prediction system project aims to analyze the expenses associated with living in different countries around the world. This project will examine various factors that influence the cost of living, including housing, food, transportation and essentials. The study will involve collecting and analyzing data from various sources, such as government statistics, surveys, and reports from international organizations. The results of this project will provide valuable insights for individuals and families who are planning to move abroad, as well as for businesses that are considering expanding their operations overseas. Ultimately, the goal of this project is to help people make informed decisions about where to live and how to manage their finances in a globalized world. In this project we use HTML 5, JavaScript and CSS for the front-end, python and MySQL for the back-end side.

Keywords: Accommodation, Food, Essentials, Transportation

I. INTRODUCTION

Living abroad is an exciting and life-changing experience that can broaden one's horizons and provide unique opportunities for personal and professional growth. However, it is crucial to consider the cost of living in a foreign country before embarking on such an adventure. The cost of living abroad can vary widely depending on the country, city, lifestyle, and other factors such as currency exchange rates, accommodation, food, transportation, and healthcare. Therefore, it is essential to research and plan ahead to ensure that one can afford to live comfortably and sustainably in a new country. This project aims to provide comprehensive insights into the cost of living in different countries and cities worldwide, including comparisons of expenses and practical tips on how to manage and save money while living abroad. By understanding the cost of living, individuals can make informed decisions about where to live and how to

budget, allowing them to enjoy their time abroad to the fullest. It is important to know how much money a student needs to spend in a country when preparing to study abroad. Using the Abroad outlay prediction system calculator we can estimate how much needs to spend in a country as an international student. We have divided the Abroad outlay prediction system calculator into four modules such as accommodation, Food, Essential and Transportation.

II. SCOPE OF THE WORK

The scope of the cost of living abroad can vary depending on the objectives and goals of the system or study. Some of the key scopes in cost of living abroad may include: Comparative Analysis: Comparing the cost of living in different countries or cities, to help individuals and businesses make informed decisions about relocation or expansion. Budget Planning: Providing information on the cost of living in different locations to help individuals and businesses plan their budget and expenses.

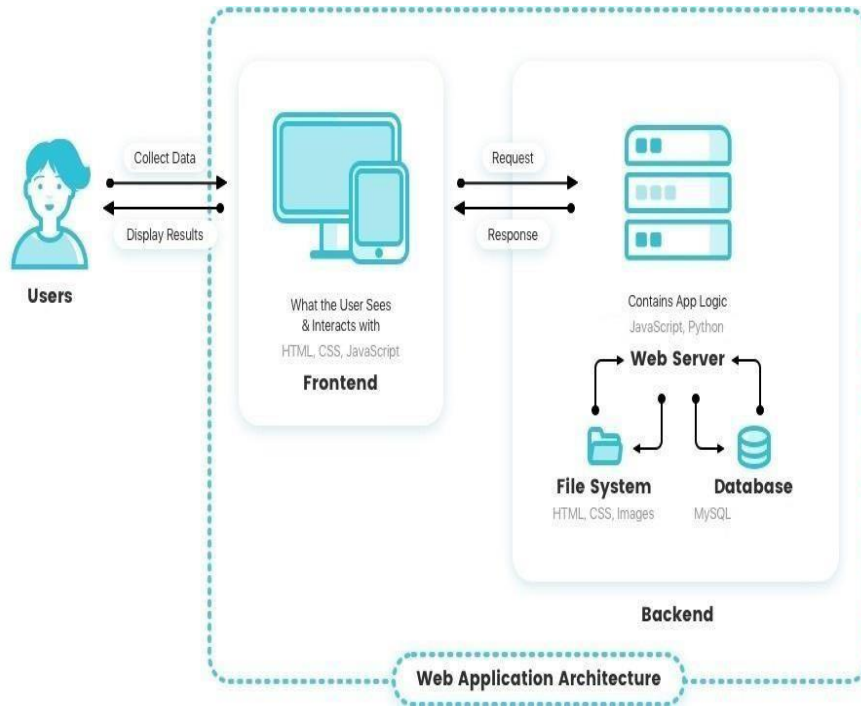


Fig 1 : Architecture and work flow of the research

2.1 Salary Determination

Using the cost of living data to determine fair and competitive salaries for employees working in different locations. Policy Formulation: Providing data on the cost of living to policymakers, to help them develop policies and regulations that support sustainable and equitable economic growth.

2.2 Research and Analysis

Conducting research and analysis on the cost of living, to gain insights into the factors that influence the cost of living in different locations and the implications for individuals, businesses, and societies. Investment Planning: Providing information on the cost of living to investors, to help them make informed decisions about investing in different locations.

2.3 Migration Analysis

Analyzing patterns of migration and movement of people based on cost-of-living data to gain insights into population trends and factors that influence migration. These scopes are not exhaustive, and there may be other areas where cost of living data can be applied to improve decision-making and understanding of economic and social conditions in different parts of the world.

III. PREDICTION SYSTEM

We are building a solution for the people who want to know their approximate monthly expenses on their destination. Our UI is simple, we will get some inputs from the user and internally using our own algorithm and dataset we will show the approximate monthly expenses of their destination.

E.g. if student wants to study in Sydney, Australia. Using our algorithm, we will show approximate monthly expenses in Australian dollar and also in Indian rupees.

The benefits of a proposed system for finding the cost of living in abroad could include: Increased Accuracy: A proposed system for finding the cost of living in abroad could use more reliable and objective data sources, such as government statistics, to increase the accuracy and reliability of the information provided. Real-Time Updates: The proposed system could incorporate real-time updates to ensure that the information provided is up-to-date and reflects the current economic, social, and environmental conditions of the location.

3.1 Comprehensive Coverage

The proposed system could provide comprehensive coverage of all major cities and countries, offering

users a more complete and accurate understanding of the cost of living in different parts of the world. Customized Results: The proposed system could allow users to customize their search criteria, such as the type of accommodation, lifestyle preferences, and budget constraints, to obtain tailored and personalized results. Transparent Data Collection: The proposed system could use transparent data collection methods and provide clear and concise explanations of the data sources and verification processes, enhancing the reliability and trustworthiness of the information provided. User-Friendly Interface: The proposed system could have an easy-to-use and intuitive interface, making it accessible and useful for a broad range of users, from individuals to businesses and policymakers.

There are several types of testing that could be relevant for a cost-of-living project, depending on the specific goals of the project. Here are a few possibilities: Usability testing: This type of testing involves observing users as they interact with the project's interface, tools, or data, and collecting feedback on how easy or difficult it is to use. Usability testing could be useful for a cost of living project that involves creating a web application or data visualization tool to help users explore and compare cost-of-living data. Functionality testing: This type of testing involves verifying that the project's features and functions work as intended. For a cost-of-living project, functionality testing could involve checking that data is being collected and displayed accurately, that calculations are being performed correctly, and that the project is able to handle large volumes of data without crashing or slowing down. Performance testing: This type of testing involves evaluating how well the project performs under different conditions, such as heavy user traffic or low network bandwidth.

S.NO	Title	Test data	expected	actual	Test status
1.	Verify that User is able to handle the cost of living calculator application	Destination : Australia City : Adelaide	User should be able to choose the destination page	User has been landed on destination page successfully.	Pass
2.	Verify that User is able to handle the cost of living calculator application	Selecting the options	User should be able to choose the options.	User has been choose the options successfully.	Pass
3.	Verify that User is able to handle the cost of living calculator application	Selecting next page	User should be able to navigate to next page it should not take time	User has been navigate to the next page it does not take time for navigation	Pass
4.	Verify that User is able to handle the cost of living calculator application	Enter Kilometre	User should be able to enter the kilometre in only numeric	User has been enter only in numeric for kilometre	Pass

Table.1 Test case representation

Maintaining a cost-of-living project involves ensuring that the data used to calculate the cost-of-living index remains accurate and up-to-date. Here are some steps that can be taken to maintain a cost-of-living project: Regularly update the price data: Price data is one of the most critical components of the cost of living index. Therefore, it's essential to ensure that the prices of goods and services used to calculate the index are regularly updated. This can be done by collecting price data from various sources such as supermarkets, online retailers, and other relevant sources. Verify the accuracy of the data: It's essential to verify the accuracy of the data used to calculate the cost of living index. One way to do this is by cross-checking the data with other sources or conducting surveys to ensure that the data is accurate. Review the weighting of the index components: The weighting of the index components may change over time, reflecting changes in consumer spending patterns. Therefore, it's essential to regularly review the weighting of the index components to ensure that they accurately reflect consumer spending patterns. Monitor changes in the market: Economic changes and market fluctuations can have a significant impact on the cost of living index. Therefore, it's important to regularly monitor changes in the market to ensure that the cost of living index accurately reflects the current economic situation.

IV. CONCLUSION

The Abroad outlay prediction system refers to the amount of money required to sustain a certain standard of living in a particular country or city. It takes into account the cost of essential items such as accommodation, food, transportation, and other living expenses. Understanding the cost of living is essential for individuals and businesses that are considering relocating or expanding to a different country or city, as it helps them plan their budget and make informed decisions. Systems for finding the cost of living in abroad can use a range of data sources and variables to provide accurate and reliable information to users, and have a broad scope that includes comparative analysis, budget planning, salary determination, policy formulation, research and analysis, investment planning, and migration analysis.

REFERENCE

1. Tan, M., & Shao, P. (2015). Prediction of student dropout in e-Learning program through the use of machine learning method. *International journal of emerging technologies in learning*, 10(1).

2. Jordan, M. I., & Mitchell, T. M. (2015). Machine learning: Trends, perspectives, and prospects. *Science*, 349(6245), 255-260.

3. AlGhamdi, A., Barsheed, A., AlMshjary, H., & AlGhamdi, H. (2020, March). A machine learning approach for graduate admission prediction. In *Proceedings of the 2020 2nd International Conference on Image, Video and Signal Processing* (pp. 155-158).

4. Ma, X., Yang, Y., & Zhou, Z. (2018, April). Using machine learning algorithm to predict student pass rates in online education. In *proceedings of the 3rd international conference on multimedia systems and signal processing* (pp. 156-161).