

# TIAA - Retirement Industry AI Hackathon



TEAM NAME : TECHNOCRATS

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

## Team Members

Mehek Jain

Pooja Gandhi

Meet Vasa

Jay Vithlani



# → Why Do We Need Retirement Planning ?

- Increased standard of living
- Increasing Medical Costs
- Enjoy Early Retirement & Peace of Mind
- Longevity
- Early Retirement
- Inflation



## What Can AI Do

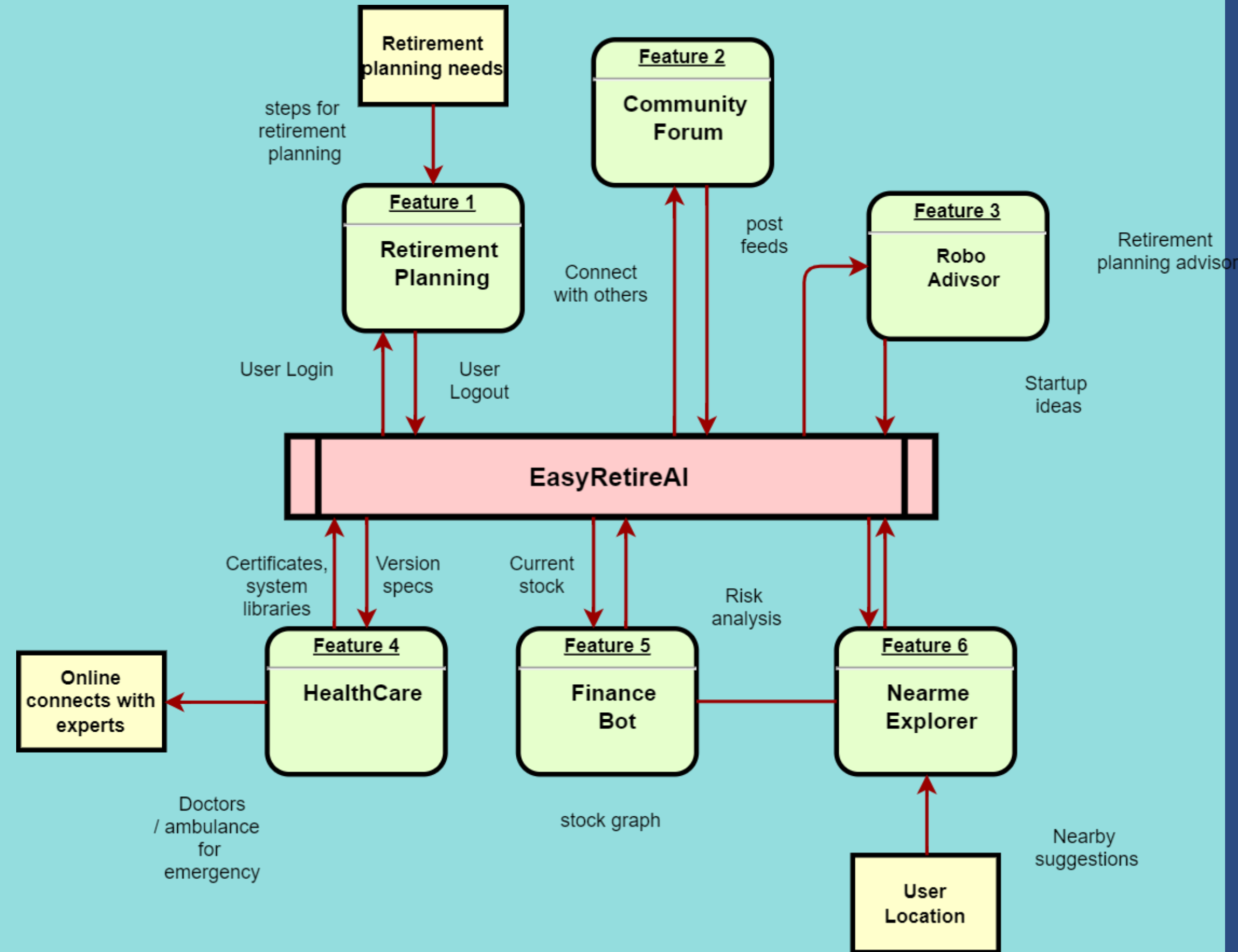
for the Retirement Plan Industry



- 1 Virtual Assistants & Chatbots
- 2 Enhanced Personalization
- 3 Efficiency & Automation
- 4 HealthCare Optimization
- 5 Predictive Insights

# EasyRetire User Journey Dataflow Diagram

- KEY FEATURES
- RETIREMENT PLANNING
- COMMUNITY FORUM
- ROBO ADVISOR
- HEALTHCARE
- FINANCE BOT
- NEARME EXPLORER

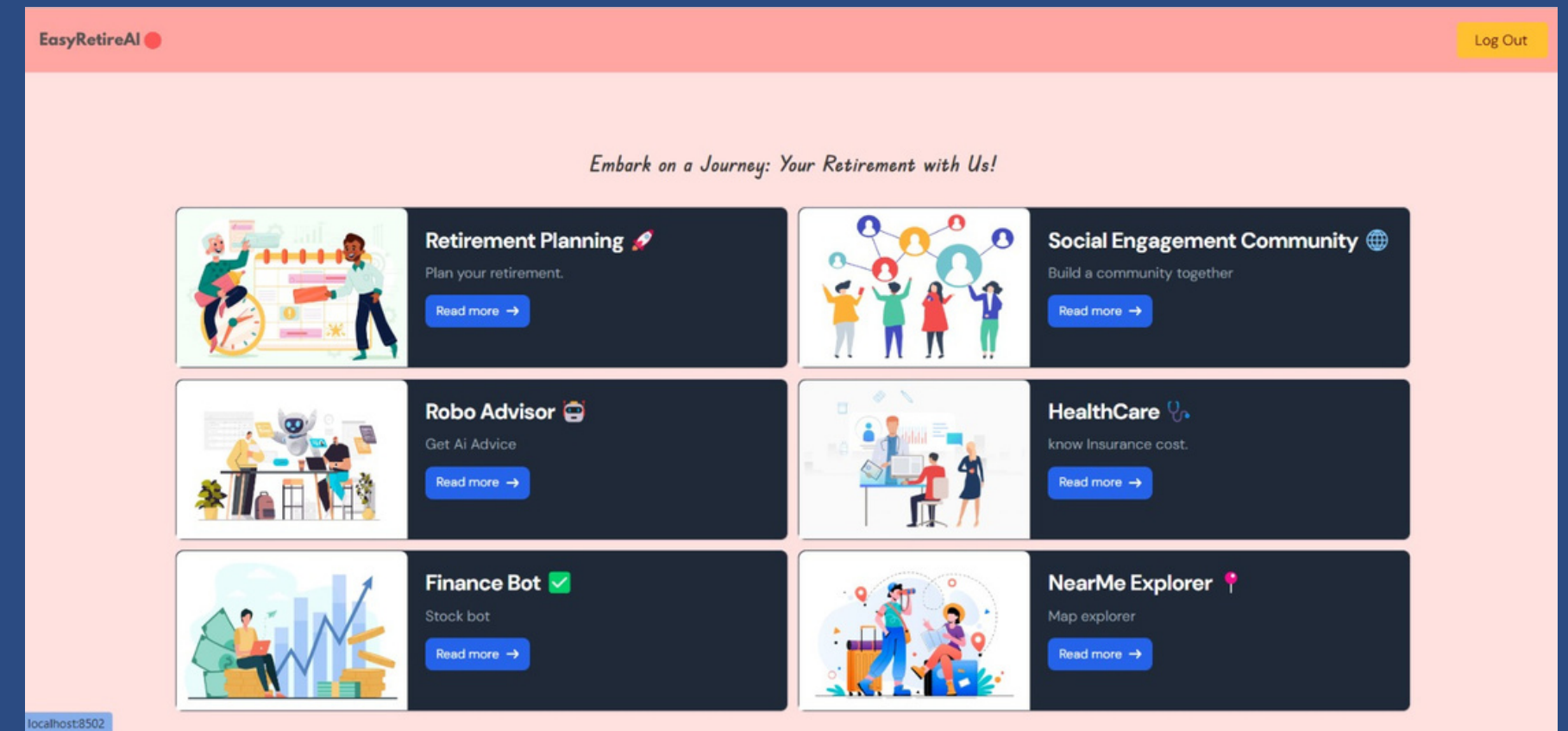


# The Feature of the Perfect Retirement

1

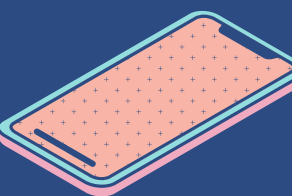
## RETIREMENT PLANNING

- Explore retirement planning on our site—a concise guide to securing your future.
- Learn the 'why,' 'how,' and 'where,' emphasizing advantages, importance, investments, and key tips for a prosperous post-retirement life.

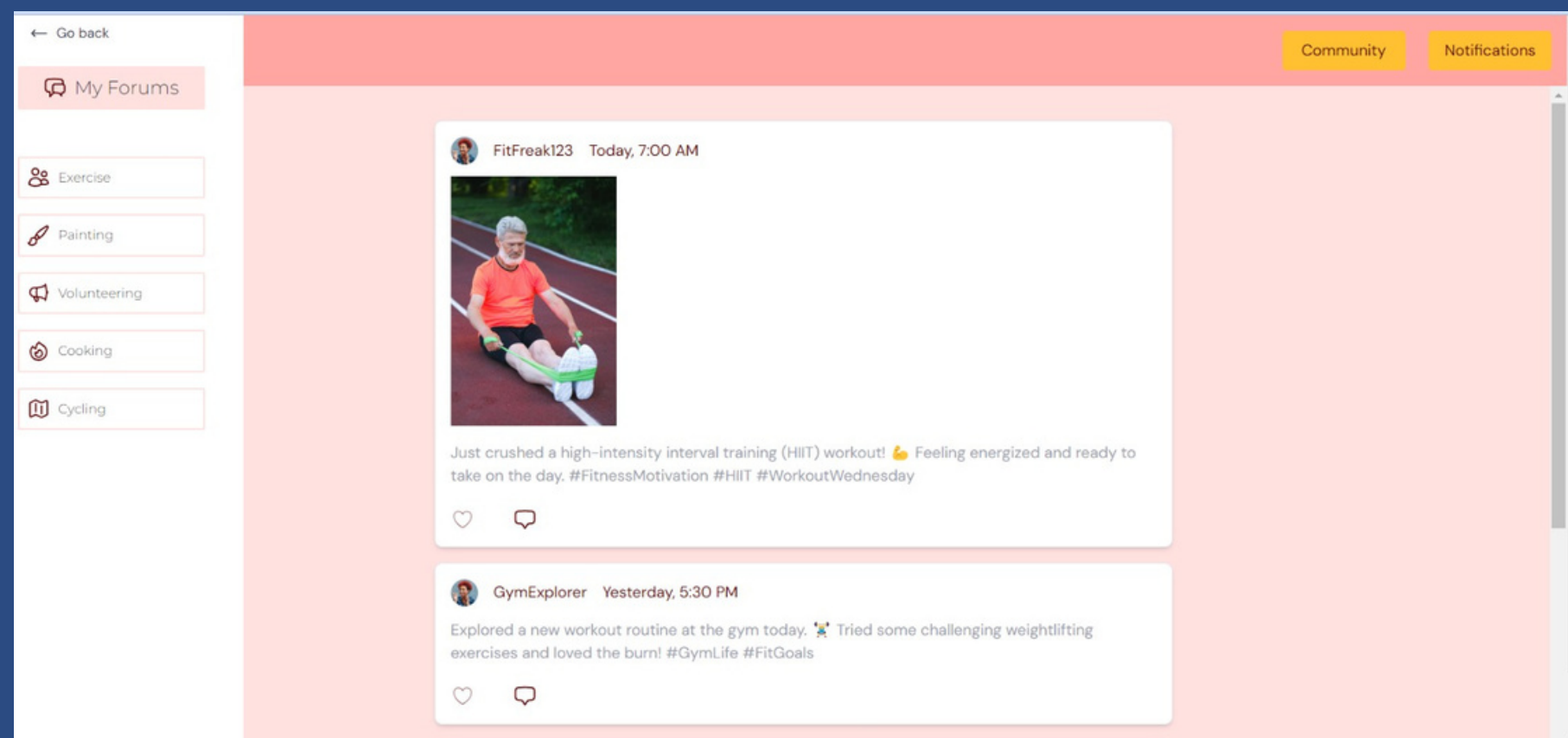


2

## SOCIAL ENGAGEMENT COMMUNITY



- Vibrant Community Hub:  
Visit and share various experiences on our social platform. Let the Retirees get Inspired by you!!
- Interactive Forums and Events:  
Join discussions and events for a supportive retirement network.





# The Feature of the Perfect Retirement

## 3 ROBO ADVISOR

- Experience versatility with our Generalized Robo Chatbot—A Multifaceted virtual assistant offering support on startup ideas for Retirees, assistance about Health Care, and ensuring comprehensive Retirement guidance at your fingertips.

### Retirement Assistant!

- Hey! 🌟
- Hello! Ask me anything
- What is compounding ? how does it helps me in my retirement ? provide an example too
- Response: - Compounding refers to the process of earning returns on both the initial investment and the returns generated from that investment over time. - It helps in retirement planning by allowing your investments to grow exponentially over a long period of time. - The longer the time frame, the greater the value of compounding. Starting to save early in your career can significantly benefit from the power of compounding returns. - For example, let's consider two friends, Raman and Prasad. Raman starts saving Rs. 2,000 per year from the age of 19 and stops investing after eight years. Prasad starts investing Rs. 2,000 per year from the age of 27 and continues till he is 65. Assuming a 10% post-tax return per annum, Raman's investment of Rs. 16,000 will grow to Rs. 1,035,160 by age 65, while Prasad's investment of Rs. 74,000 will grow to Rs. 800,896. This shows the power of compounding, as Raman's investment experienced a 64-fold increase compared to Prasad's 10-fold increase. - In summary, compounding is crucial for retirement planning as it allows your investments to grow exponentially over time, maximizing the potential for a comfortable retirement. Starting early and letting your money work for you through compounding can make a significant difference in achieving your retirement goals.

Select a sample question:

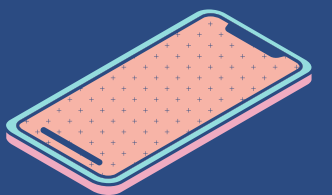
What are the best startup/business ideas after the retirement

Question:

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## 4 NEAR-ME EXPLORER

- Navigate your surroundings effortlessly with our Near-Me Explorer.
- Providing locations Of Essential Places for a seamless retirement experience in just 2 clicks



Welcome Retirees!

Explore nearby places and find easy way to access different locations for a healthy retirement.

Useful Links

Retirement Planning

[Kiplinger - Retirement](#)

[Vanguard - Retirement Savings Calculator](#)

[Government Senior Citizen Portal](#)

Social Interaction

[Meetup - Find and build local communities](#)

Physical and Mental Health

Select nearby places category:

Hospitals

### Nearby Hospitals

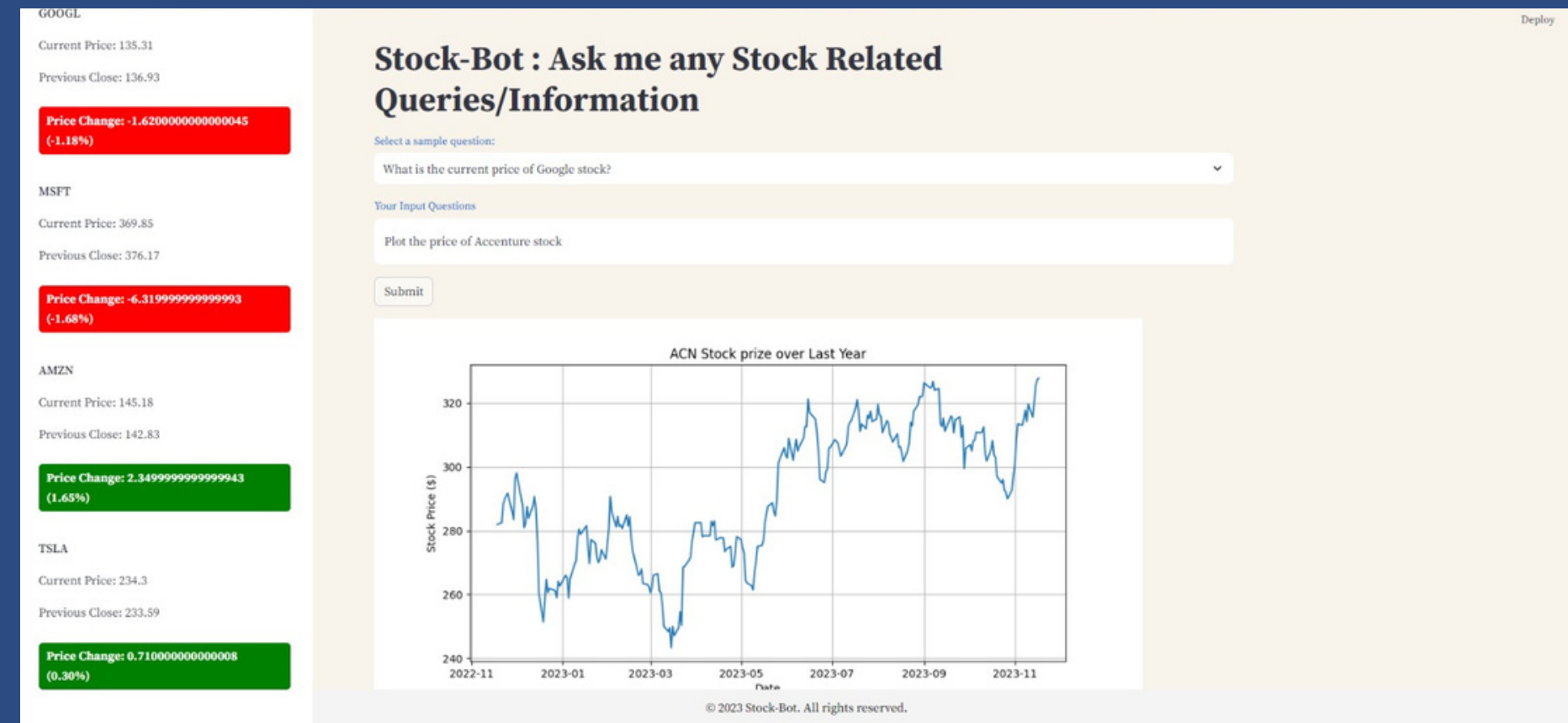
Dr. Khatavs Mother and Child Hospital - Borivali (Mumbai), Court Lane, Zone 4, Mumbai - 400092, Maharashtra, India

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# The feature of the Perfect Retirement

## 5 FINANCE BOT

- Enhance your investment strategy with our Stock Chatbot . Explore Various Stock insights at one Place.
- A virtual advisor delivering personalized stock advice and insights, Categorizing Companies based on their risks .optimizing your financial decisions for a secure and informed journey in the stock market.



## Retirement Planning and Health Predictions

### Insurance Cost Prediction

Age  
18

Sex  
☒ Male  
☐ Female

BMI  
10.00

Number of Children  
0

Smoker  
☒ Yes  
☐ No

Region  
☒ Southeast  
☐ Southwest  
☐ Northeast  
☐ Northwest

Predict Insurance Cost

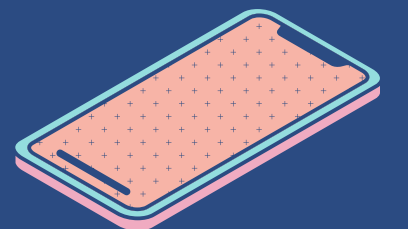
Insurance Cost Prediction: 15927.89

## Retirement Savings Projection

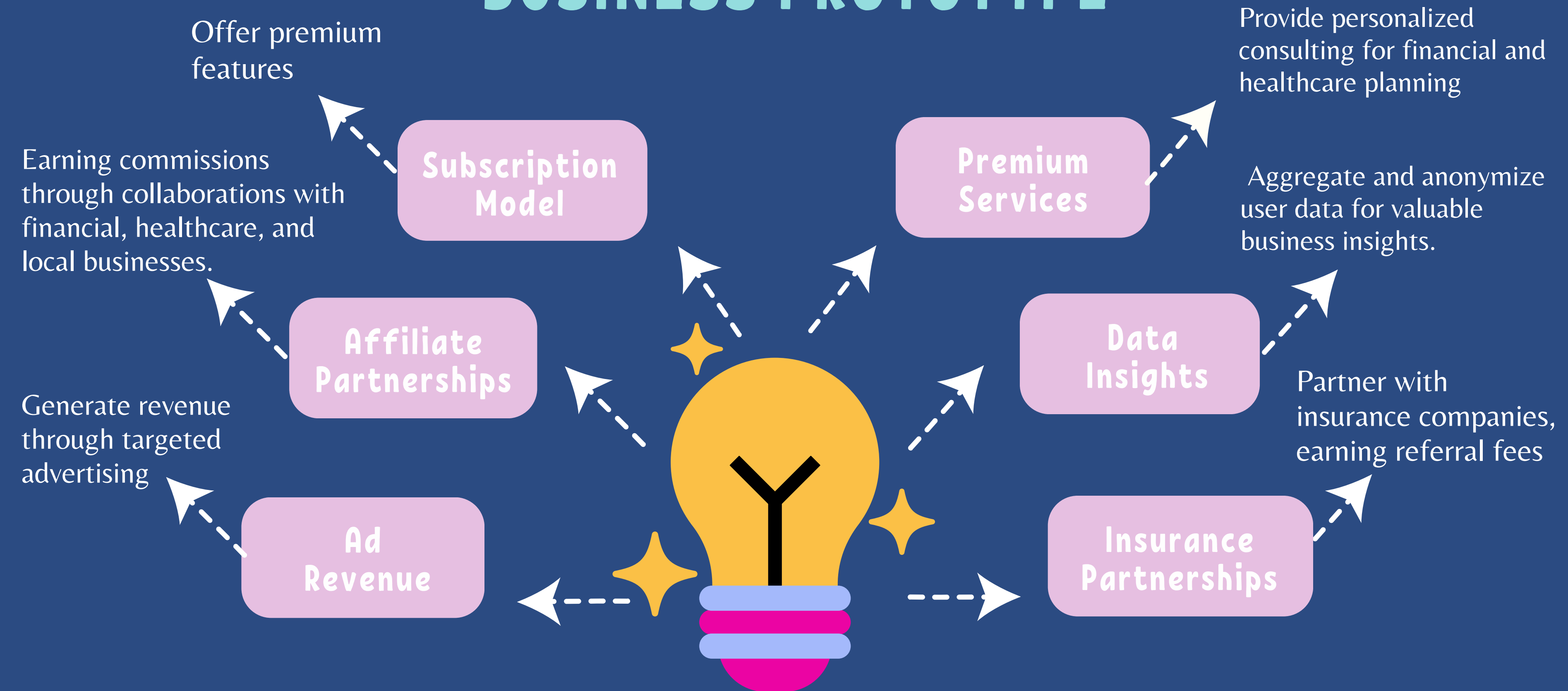


## 6 HEALTHCARE

- Empower your retirement decisions with our healthcare section.
- Featuring predictors for life expectancy and insurance cost predictors for a secure future.



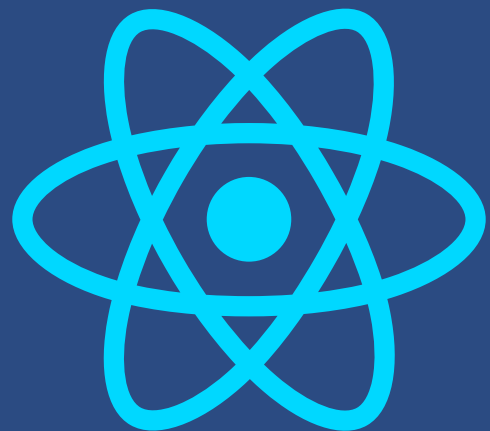
# BUSINESS PROTOTYPE





# Tech Stack

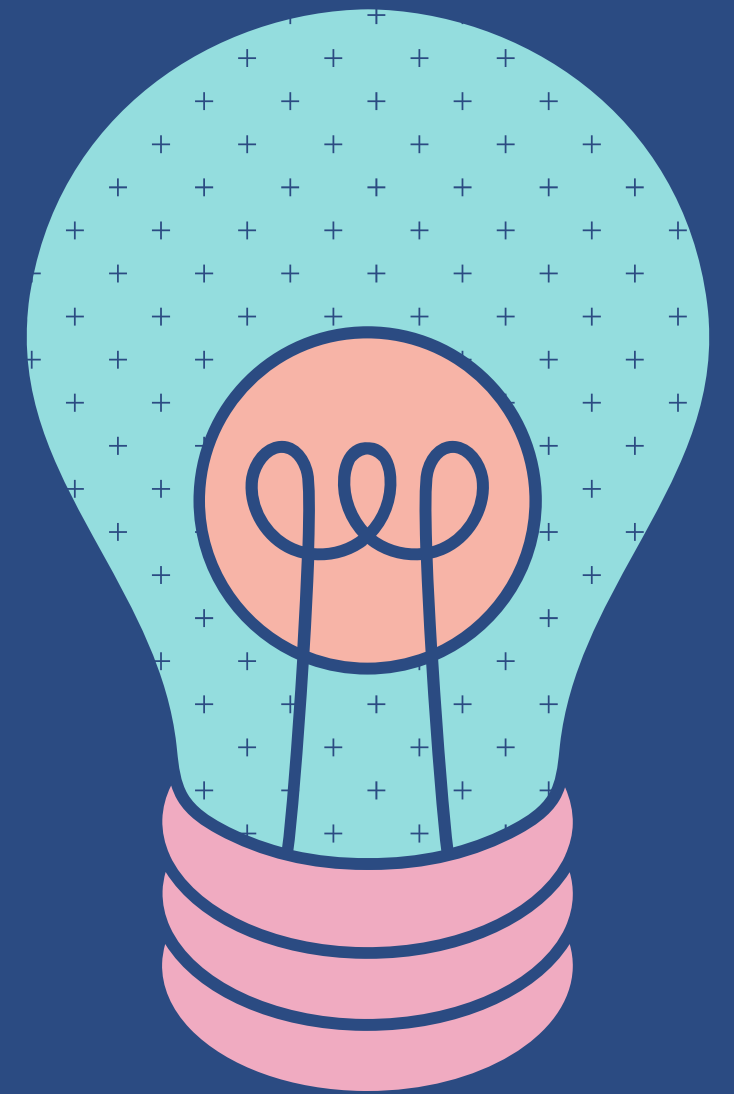
- **React.js (Web Frontend) + Type Script:** React.js ensures a highly responsive user interface, facilitating real-time content recommendations and engagement features
- **StreamLit:** Streamlit is a popular Python library that is commonly used for creating web applications with minimal effort, particularly in the context of data science and machine learning.
- **LangCHAIN:** LangChain offers seamless integration of blockchain technology with natural language processing, enabling secure and transparent interactions in a linguistically intuitive manner.
- **Skicit-learn & LLM :** Scikit-learn provides a versatile machine learning toolkit for traditional models, while transformers like LLM (Large Language Models) such as GPT-3 offer state-of-the-art natural language understanding.





# Future Scope

- Expanded Advisory Services: Robo advisor to cover investments, insurance, and tax planning.
- Expert Q&A Sessions: Host webinars for in-depth financial advice and user queries.
- On-the-Go Financial Planning: Create a mobile app for seamless access to financial tools anytime, anywhere.
- Personalized Strategies: Use advanced algorithms for tailored retirement plans based on individual profiles.



# Conclusion

01

EasyRetire.AI AI-driven website stands as a beacon for the betterment of retirees' lives.

02

By harnessing the power of artificial intelligence, we've created a comprehensive platform tailored to enhance retirement planning, healthcare accessibility, and community engagement.

03

Through predictive models, personalized financial guidance, and easy access to essential services, our solution is dedicated to fostering financial security and well-being for retirees.



- GitHub Repository : <https://github.com/Meet3456/TIAA>
- Walk Through Our Demonstration : <https://drive.google.com/drive/folders/1hrUWndBsPBDGrxr9bv6drd4m-u7waUiP?usp=sharing>