Mobile application to analyse and reduce lifestyle cancer risk

Group 3 Members

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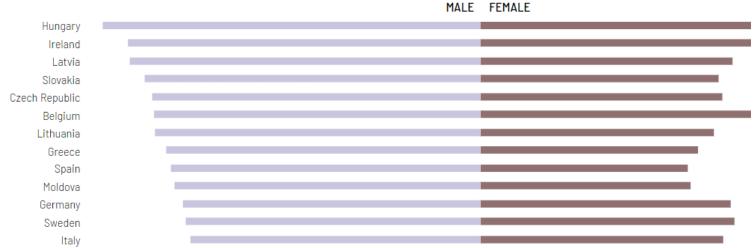
Introduction

- By 2020, **One out of Two** people in Ireland will develop cancer during their lifetime [1].
- In Ireland almost 45,000 new cases of cancer are diagnosed each year. This means that one person is diagnosed with cancer every 3 minutes.
- Four out of Ten cancers can be prevented through lifestyle changes.
- Early prediction of cancer based on the life style can reduce these figures.



Life Risk due to Cancer

Lifetime risk (%) of a cancer diagnosis in selected European countries, by sex



Value Proposition

- To reduce number of cancer cases by personalised lifestyle suggestion through digital services.
- Improve country economy.
- Avoid pain and medical expenses over cancer.

Motivation

- **Cancer** is the second leading cause of death globally, and is responsible for an estimated **9.6 million** deaths in 2018.
- Early stage prediction can help to prevent the cancer.
- High digital literacy.



Anand, Preetha et al. "Cancer is a preventable disease that requires major lifestyle changes." *Pharmaceutical research* vol. 25,9 (2008): 2097-116. doi:10.1007/s11095-008-9661-9

Problem Statement

Develop an application to predict the chance of getting cancer to prevent the cancer in the early stages using the artificial intelligence and life style data.

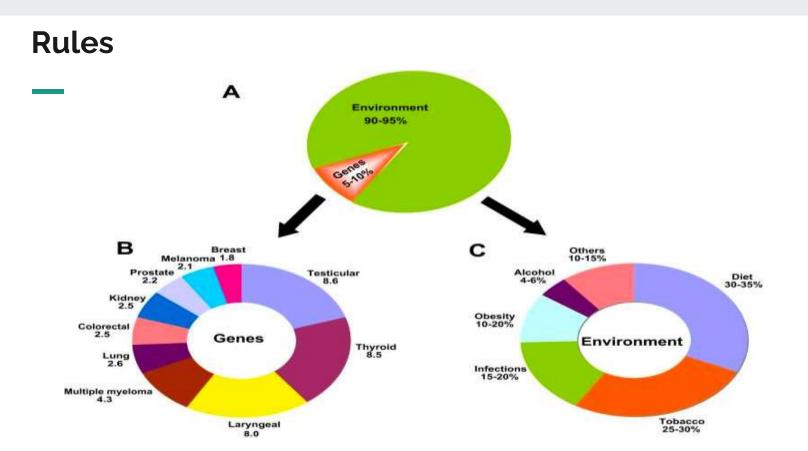




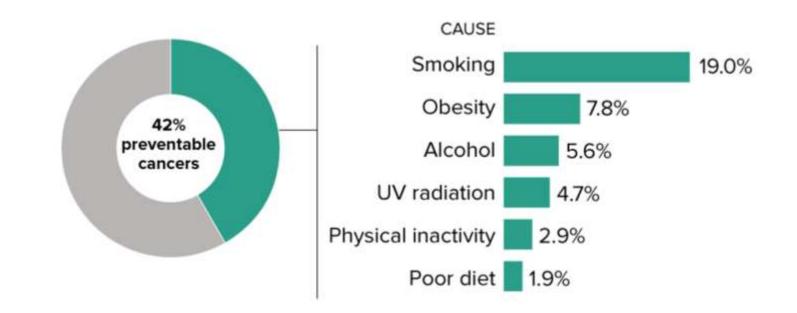
- Step 02 Preprocessing
- Step 03

Rules

 Step 04 Artificial intelligence for Pattern Mining
Step 05 Feedback and Testing
Step 06 Application



Anand, Preetha et al. "Cancer is a preventable disease that requires major lifestyle changes." *Pharmaceutical research* vol. 25,9 (2008): 2097-116. doi:10.1007/s11095-008-9661-9.



Source: American Cancer Society

Target Segments

- Cancer Hospitals
- General Public
- Educational Institutes

Cost Structure and Earnings

No.	Expenditures	Cost(euros)
1	Software Infrastructure	20,000
2	Wages	40000
3	Operationsl Expenses	1000
4	Sales and Marketing	2000
	Total	63000

Earnings

Playstore

Targeted segment

Revenue Streams

1) Government Health Agency(HSE)

2) Irish Cancer Foundation

References

- Anand, Preetha et al. "Cancer is a preventable disease that requires major lifestyle changes." *Pharmaceutical research* vol. 25,9 (2008): 2097-116. doi:10.1007/s11095-008-9661-9.
- 2) <u>https://www.nbcnews.com/health/cancer/fresh-look-cancer-shows-</u> <u>smoking-obesity-top-causes-n822836</u>
- 3) https://canceratlas.cancer.org/the-burden/europe/

Thank You!