MRCard

Machine Reasoning Credit Card Recommendation System

USER MANAUL

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1 System Overview

MRCard is a web based **Credit Card Recommender System**. The target users would be divided into two groups, consumers and businesses. To consumers, it would be a good system to learn what credit card is most suitable base on their spending habits and preferences. To businesses, i.e. banks, it would be a professional system to learn how their credit cards are compared with the market competitors. The system would be run with a web UI and it is device-friendly. The users could connect it through Internet and answer some survey question to get the recommendation on credit cards.

2 Supported browsers

2.1 Mobile devices

It supports the latest versions of each major platform's default browsers. Note that proxy browsers (such as Opera Mini, Opera Mobile's Turbo mode, UC Browser Mini, Amazon Silk) are not supported.

	Chrome	Firefox	Safari	Android Browser & WebView	Microsoft Edge
Android	Supported	Supported	N/A	Android v5.0+ supported	Supported
iOS Windows 10 Mobile		$\begin{array}{c} {\rm Supported} \\ {\rm N/A} \end{array}$	$\begin{array}{c} {\rm Supported} \\ {\rm N/A} \end{array}$	N/A N/A	Supported Supported

Table 1: Mobile Devices Support

2.2 Desktop browsers

The latest versions of most desktop browsers are supported.

	Chrome	Firefox	Internet Explorer	Microsoft Edge	Opera	Safari
Mac	Supported	Supported	N/A	N/A	Supported	Supported
Windows	Supported	Supported	Supported, IE10 $+$	Supported	Supported	Not supported

Table 2: Desktop Browser Support

3 Deployment

Our system is deployed by Django, which is a Python-based free and open-source web framework. To run the system successfully, some basic packages are required with the latest version of Python 3 (i.e. Python 3.7.2).

Packages:

- PyKnow
- panda
- Django

Once the running environment is ready, please open the system folder in terminal, and run the command python3 manage.py runserver. You should see the following output on the command line:

```
Performing system checks...

System check identified no issues (0 silenced).

You have unapplied migrations; your app may not work properly until they are applied.

Run 'python manage.py migrate' to apply them.

February 28, 2019 - 15:50:53

Django version 2.1, using settings 'mysite.settings'

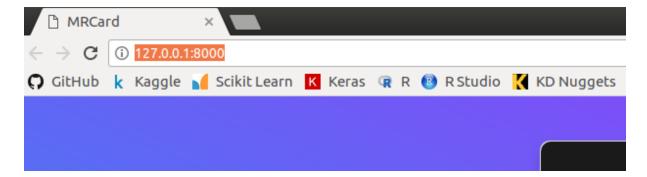
Starting development server at http://127.0.0.1:8000/

Quit the server with CONTROL-C.
```

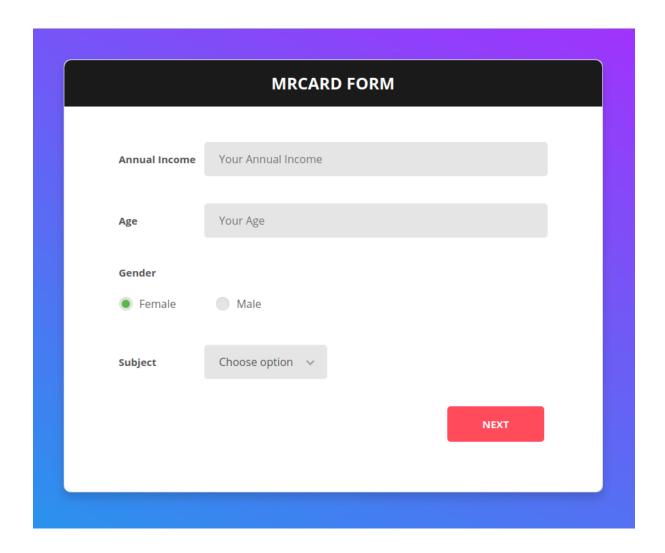
Then you can go to the web browser and input URL "http://127.0.0.1:8000/" to use MRCard.

4 Procedure

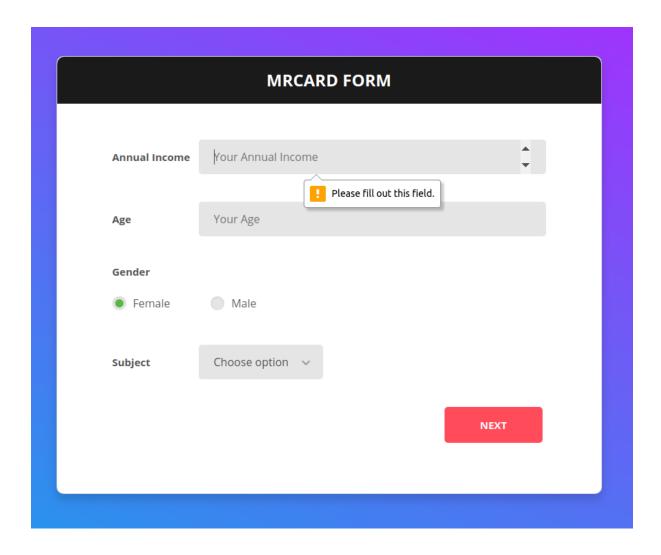
Open up your preferred browser and go to the URL "http://127.0.0.1:8000/" as shown below:



Input your Annual Income (rough), Age, Gender and Citizenship, they are all required fields. We use this to calculate which Credit Cards you are eligible for.



Input your Annual Income (rough), Age, Gender and Citizenship are all required fields. If you do not fill in a given field, a prompt will be exposed to remind you.



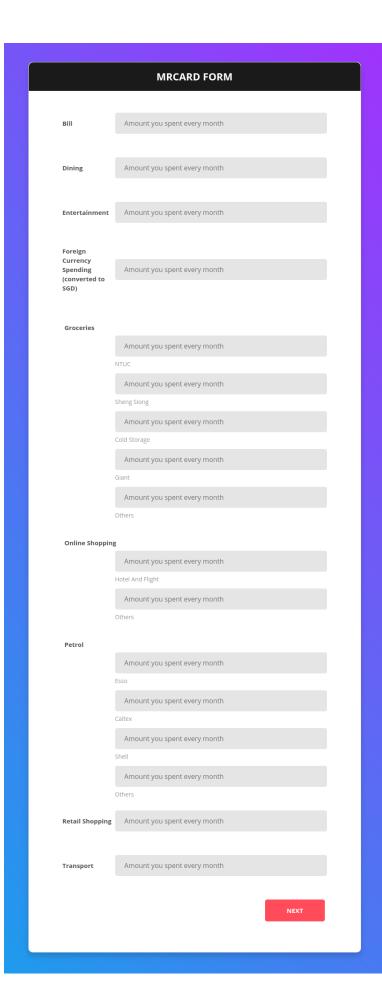
Next, you get to choose which Bank/ Payment Network and Rewards type you prefer. We will include this as part of the recommendation for preferred cards, together with the ideal Credit Card. From the set of eligible Cards, we recommend an ideal card. And from the set of eligible and preferred Credit Cards, we recommend a preferred card.

MRCARD FORM
Preferred Bank
DBS OCBC HSBC Citibank Maybank
UOB Standard Chartered
Preferred Card Payment Network
○ Visa ○ MasterCard ○ American Express ○ JCB
Preferred Rewards Type
☐ Cashback ☐ Miles ☐ Rewards
NEXT

Following which, click on which categories you spend on with a Credit Card. We use this internally so that we don't need to ask you unnecessary questions for categories that you don't spend on. (e.g. If you select Groceries, we will ask you how much you spend on it) We also have a more granular breakdown for certain categories because the breakdown matters when calculating Cashback/ Miles/ Rewards.

	MR	CARD FORM			
What do	you pay by credit cards				
Bill					
☐ Dinin	g				
	tainment				
☐ Forei	gn Spending				
Groc	eries				
Onlin	e				
☐ Petro					
Retai					
Trans	port				
					1
				NEXT	
			•		

Next, please input your spending amounts for each category. You can choose to be as granular as you want or just give a rough estimate (but our calculation will be less accurate then!)



And finally based on your eligibility, preferences, spending categories and spending amount, we calculate and give you your recommend ideal and preferred credit card. Click on the Apply button for a link to the official website to sign up! Cheers!

