USER GUIDE

TRIP @ US

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REQUIREMENTS

SYSTEM OVERVIEW

The system consists of three parts: firstly, Hotel Recommendation. Secondly, Itinerary plan recommendation & optimization and Thirdly, a TravelBot, a Chatbot for dynamic online plan / replan recommendations.

For the final result, travellers will get a full picture of how their trips in Singapore will be like : the optimum hotel plan based on their preference and best combinations of attractions for every day, directions between attractions and even options to dynamically interact with the application using a chatbot with Telegram Messenger.

RECOMMENDED BROWSERS

Travel @ Us recommender system supports the following Web Browser

- Internet Explorer 11
- Microsoft Edge
- Firefox 52 ESR and above
- Google Chrome 80 and above

Travel @ Us recommender system supports the following online Instant Messenger for dynamic route optimization / planning.

- Telegram iOS 5.3 and above
- Telegram Android 6 and above
- Telegram Web 0.7 and above
- Telegram Desktop 2 and above

USER INTERFACE

The application user interface runs in Python, Email & Telegram Open API are other two interfaces for the application.

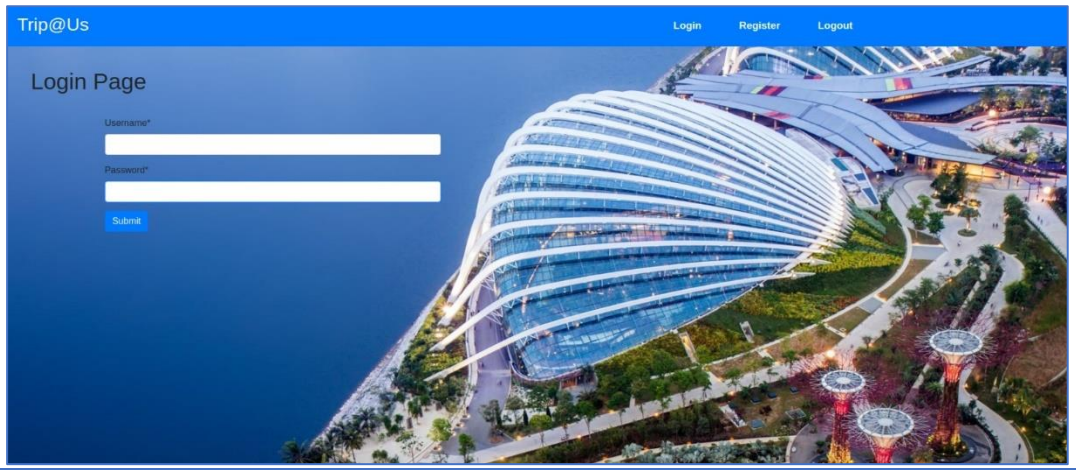
For the recommendation part, once our inference engine outputs the result, the result would be sent to python which then queries the most appropriate attraction from our database and displays the result onto one of the user interface option (web browser, email and/or Telegram).

For the route optimization part, we will use the Brute force search to optimize the ravel itinerary after user selectin their preferred attractions, priority, preference and send the result to python, which then displays the route onto (a) web interface for static search and (b) Telegram Chatbot for dynamic search.

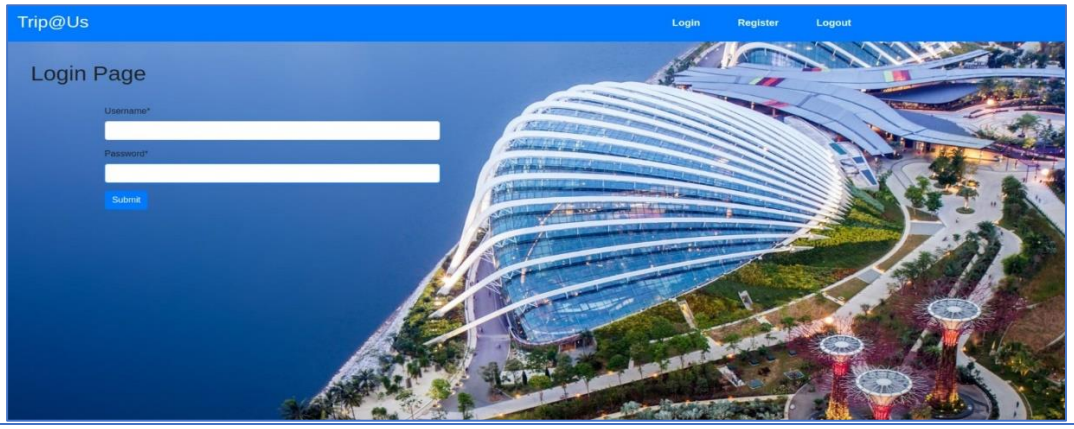
USER GUIDE

TRAVELLER'S USING APPLICATION ON OR BEFORE REACHING SINGAPORE

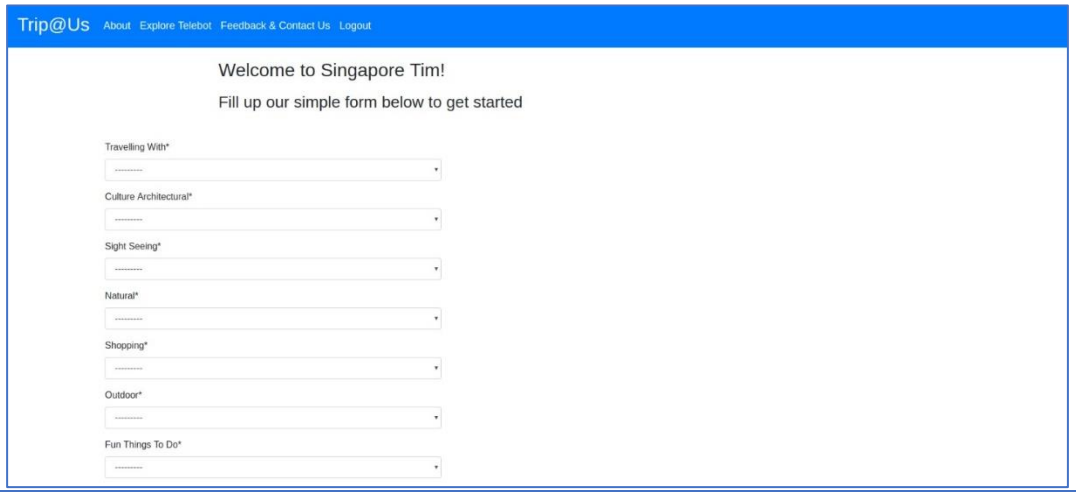
Step 1	Open up your preferred browser and go to the URL https://localhost:8080 as shown below.	Please follow the 'Setup Document' for installation instruction.



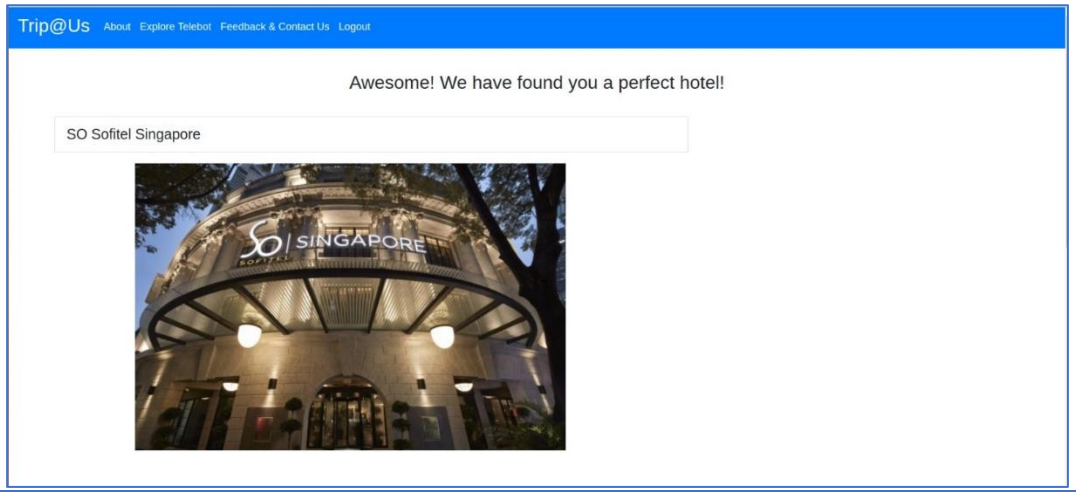
Step 2	Login using the email ID & password created while signup.	For new users, he has to sign up as mentioned in Step 3.
Step 3	The traveller has to login for the first time, the login details are secured stored in the application database.	The user credentials will be used to refer his recommendations during dynamic re-planning stage.



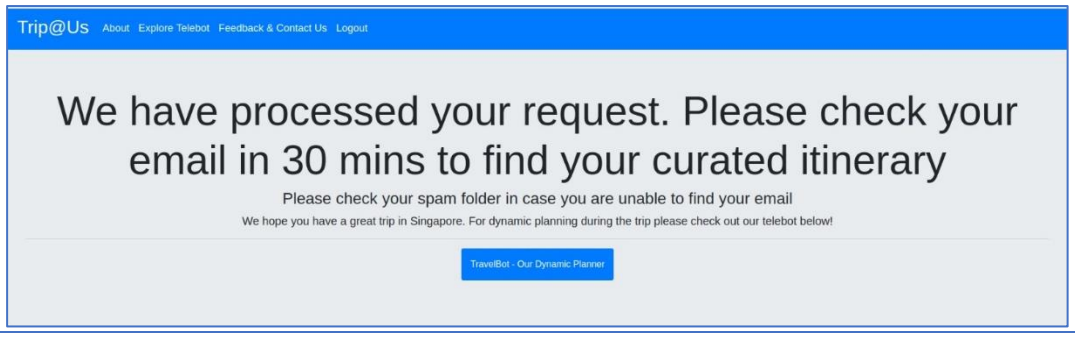
Step 4	Traveller will be shown the page to select his preferences, He can select options for the following questions. 1. Does the traveller Travelling "Solo", with "Family" or "Friends"? Traveller have to select his preferences "Low", "Medium" and "High" for the fixed **five** categories, as 2. Culture Architectural 3. Sight Seeing 4. Natural 5. Shopping 6. Outdoor 7. Fun Things To Do And, lastly the traveller to mention 8. " Number of Days" he/she is planning to visit Singapore.	The attraction recommendation is based on the preferences.



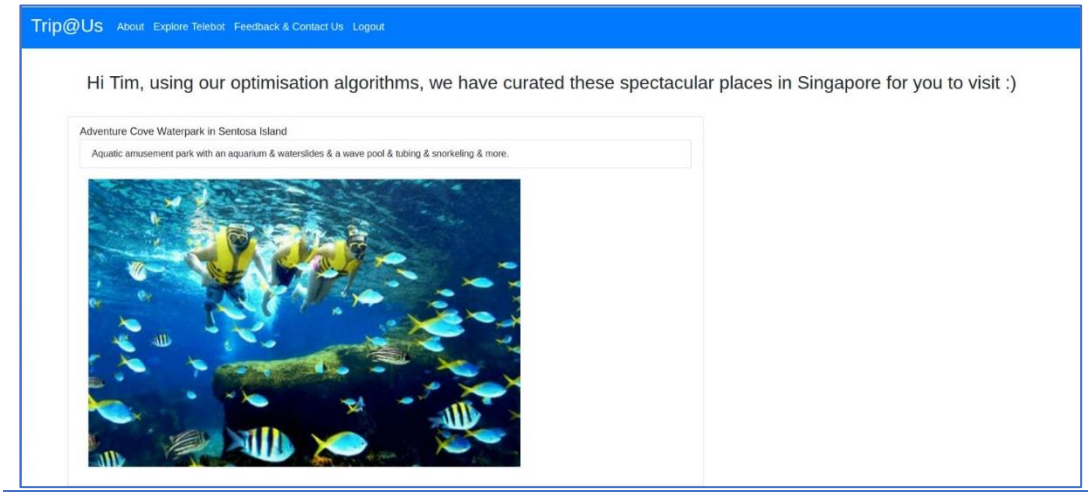
Step 5	Trip At US application will run the preferences against its inbuild database and will provide recommended hotel list.	The traveller booking hotel has to be managed offline, leaving the options to the traveller to take the decision based on the recommendation.



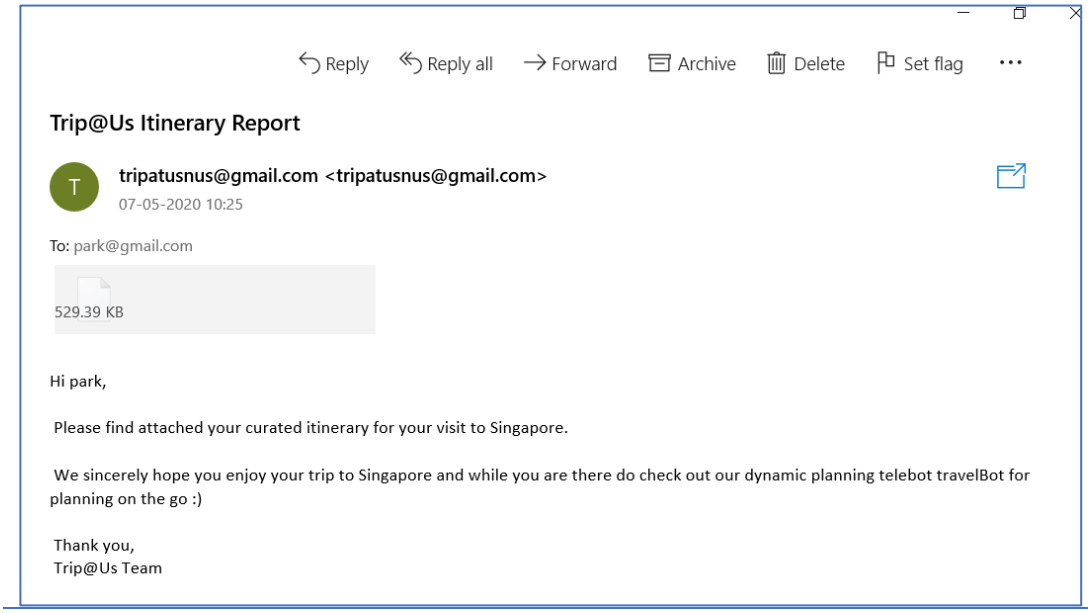
Step 6	Now, the system will run through the travellers' preferences, using various logics and algorithm and will provide the Travel Plan in email (to his registered email ID)	



Step 7	A recommended Itinerary for the Traveller	



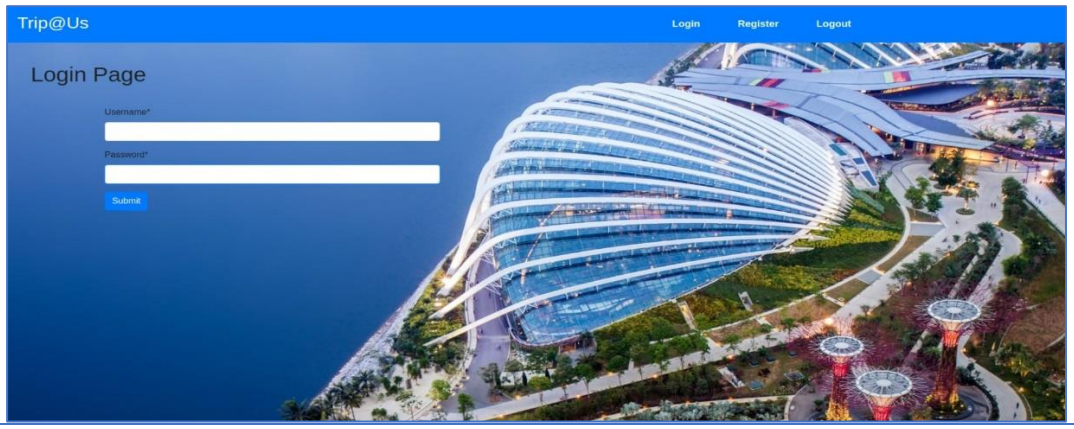
Step 7 A sample email in the user's inbox.



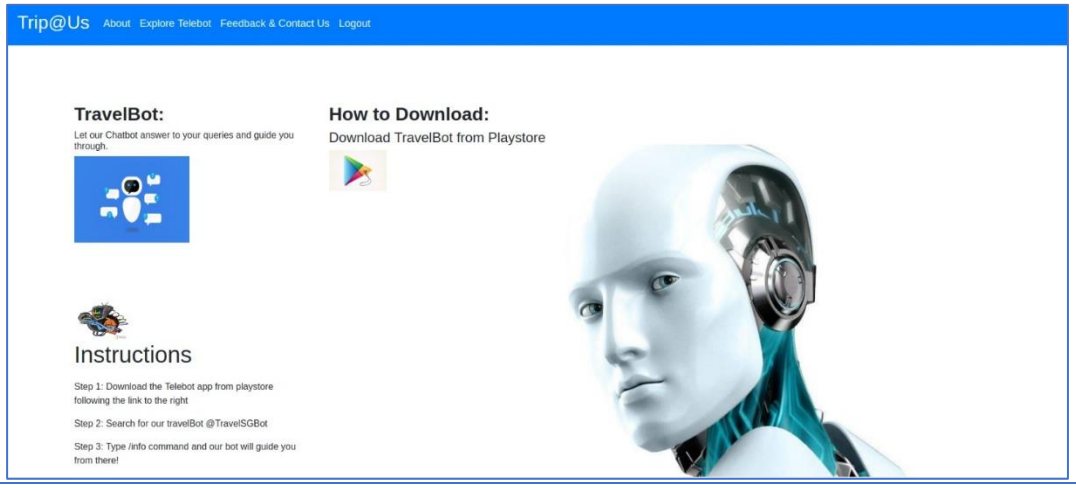
TripAtUs-Plan A.pdf

TRAVELLER'S USING APPLICATION ONCE HE/SHE IN SINGAPORE

Step 1 Now, the traveller has reached Singapore for his holiday, and we welcome him to login again.



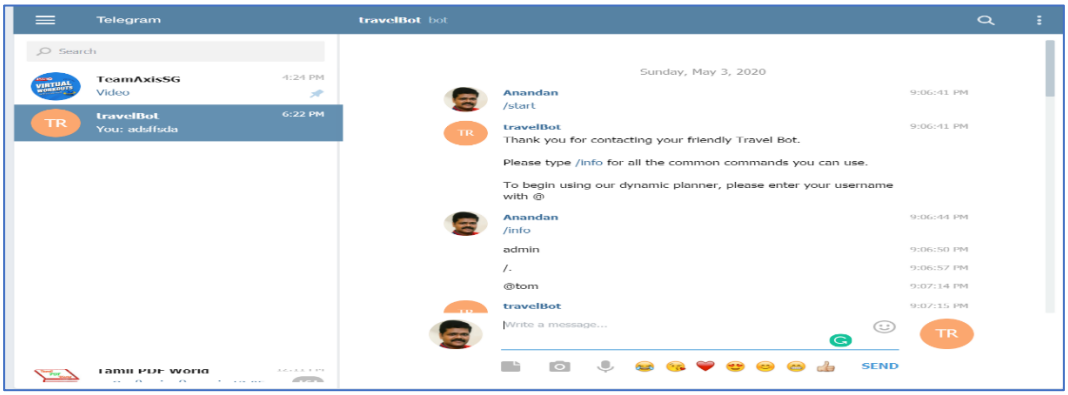
Step 2 Traveller can use the TravelBot to start interacting with the application, for dynamic planning / replanning.



Step 3 Traveller have to start the chatbot in his preferred web browser / or/ Telegram Messenger application in his smartphone device.

https://web.telegram.org/#/im?p=@TravelSGBot

Step 4 Chatbot in Action



TRAVELLER'S FEEDBACK

Step 1 Travellers can leave the feedback, we welcome and thank you for their openness in sharing their view. We will keep all the views and enhancement requests for future upgrades.

APPENDIX :

SAMPLE TRAVEL PLAN IN EMAIL

Trip@Us - Your Friendly Travel Planner

Hello Gordon, please find your curated itineary for your Singapore visit below :).

We provide a detailed day by day breakdown of your trip to some of the places we know you will love. And what's more, our core algorithm optimised your travelling distance so that you can spend more time at the places you love :)

DAY 1

- Cable Car to Sentosa Island: Leisure & Attractions & Beaches
- 313@Somerset Mall
- Bugis Junction Mall
- CHIJMES Singapore
- Esplanade Theatre

Tanglin
Orchard
Little India
Selegie
Beach
Bugis
Bras Basah
SINGAPORE
Tiong Bahru
Outram
Raffles Place
Tanjong Pagar
Marina
Harbourfront

DAY 2

- Lau Pa Sat Singapore
- ION Orchard Mall
- Marina Barrage
- Gardens by the Bay
- Old Supreme Court Singapore

DAY 3

- Pinnacle@Duxton
- Pulau Ubin & Singapore Islands
- Orchard Central
- Peranakan Museum Singapore: History & Culture
- Raffles Statue

DAY 4

- S.E.A. Aquarium
- The Centrepoint
- Singapore Flyer in Sentosa Island
- Thian Hock Keng Temple Singapore