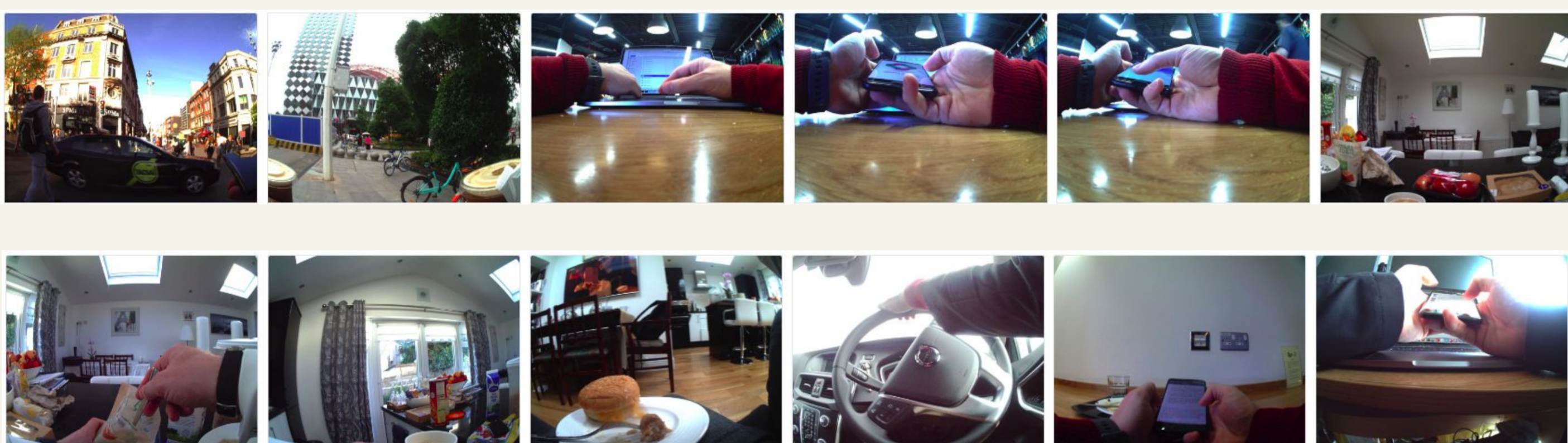


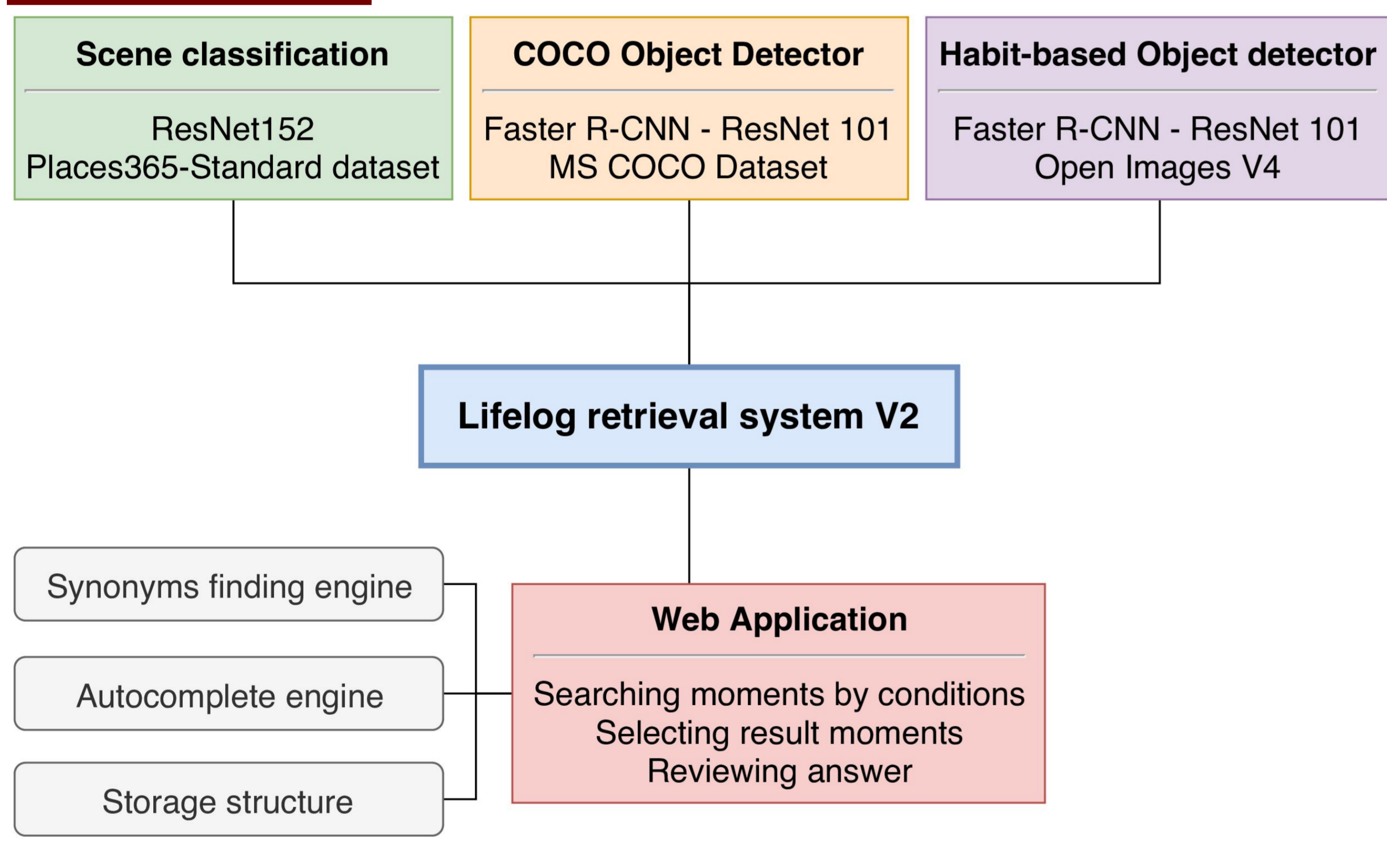
INTRODUCTION

Lifelog-3 was the third instance of the lifelog task at NTCIR. At NTCIR-14, the Lifelog-3 task explored three different lifelog data access related challenges. One of the three challenges is **Lifelog Semantic Access sub-Task (LSAT)** which aims to explore search and retrieval from Lifelogs. In this subtask, the participants had to retrieve a number of specific moments in a lifelogger's life in response to a query topic. Our proposed system solves this subtask by providing two main features: **Data Processing** and **User Interaction**. For Data Processing, we employ models in object detection and scene classification to annotate the lifelog dataset with meaningful metadata. For User Interaction, we aim to design and provide a friendly user interface that enables novice users to interact with the queries and select the result data. In the **NTCIR-14 official results**, our system has the **highest performance**.

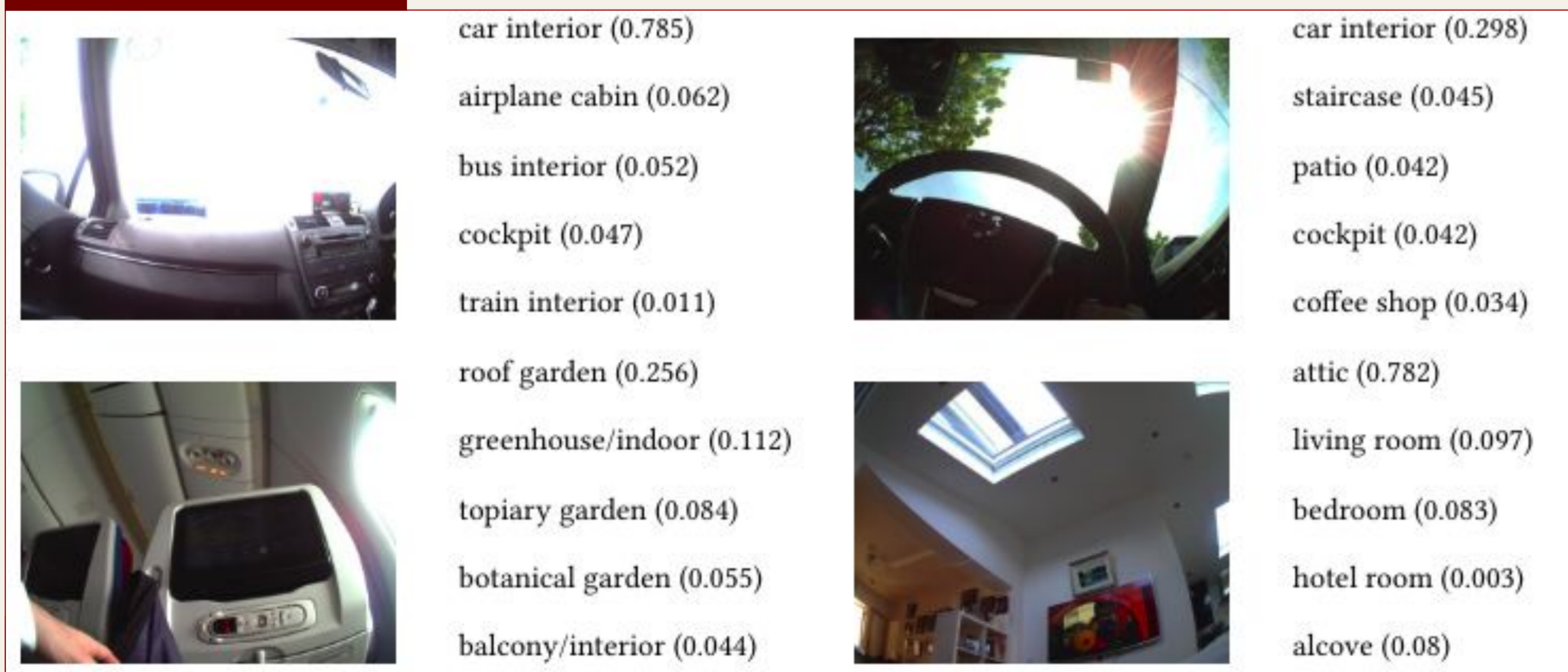


PROPOSED SYSTEM

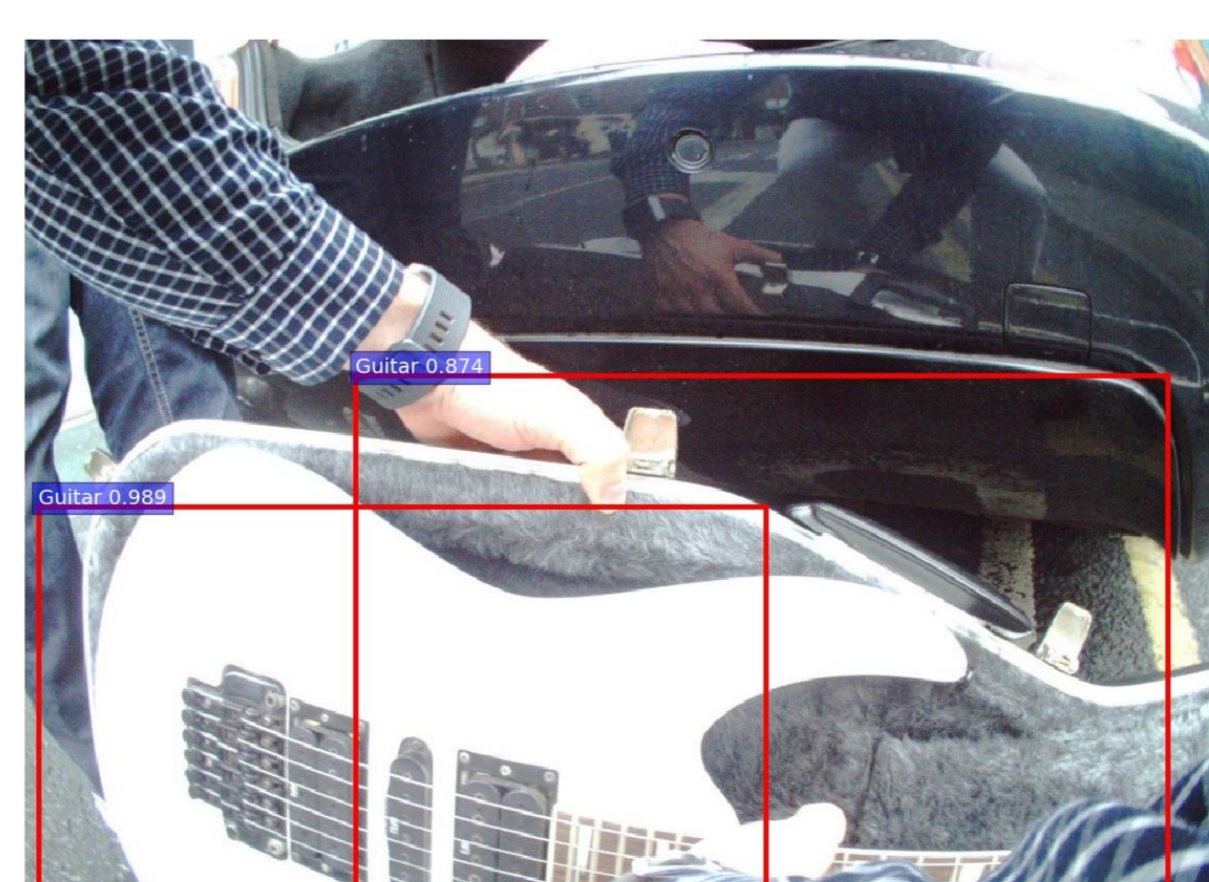
Overview



Scene classification



Habit-based detector



RESULTS

The official results of the LSAT

Group ID	Run ID	Approach	MAP	P@10	RelRet
NTU	NTU-Run1	Interactive	0.0632	0.2375	293
NTU	NTU-Run2	Interactive	0.1108	0.3750	464
NTU	NTU-Run3	Interactive	0.1657	0.6833	407
DCU	DCU-Run1	Interactive	0.0724	0.1917	556
DCU	DCU-Run2	Interactive	0.1274	0.2292	1094
HCMUS	HCMUS-Run1	Interactive	0.3993	0.7917	1444
QUIK	QUIK-Run1	Automatic	0.0454	0.1958	232
QUIK	QUIK-Run2	Automatic	0.0454	0.1875	232

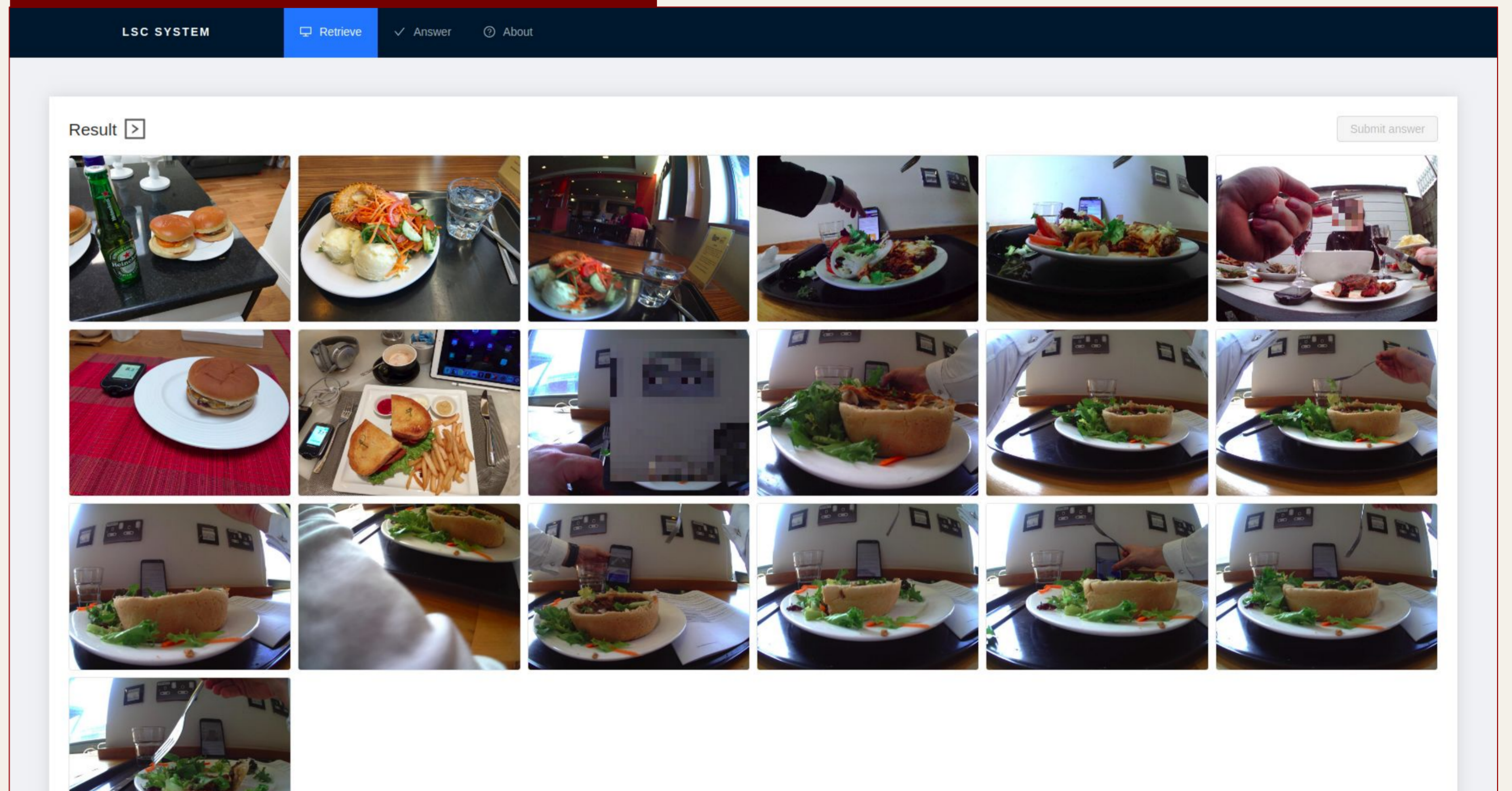
Our proposed system has the highest performance in NTCIR-14 result

USER INTERACTION

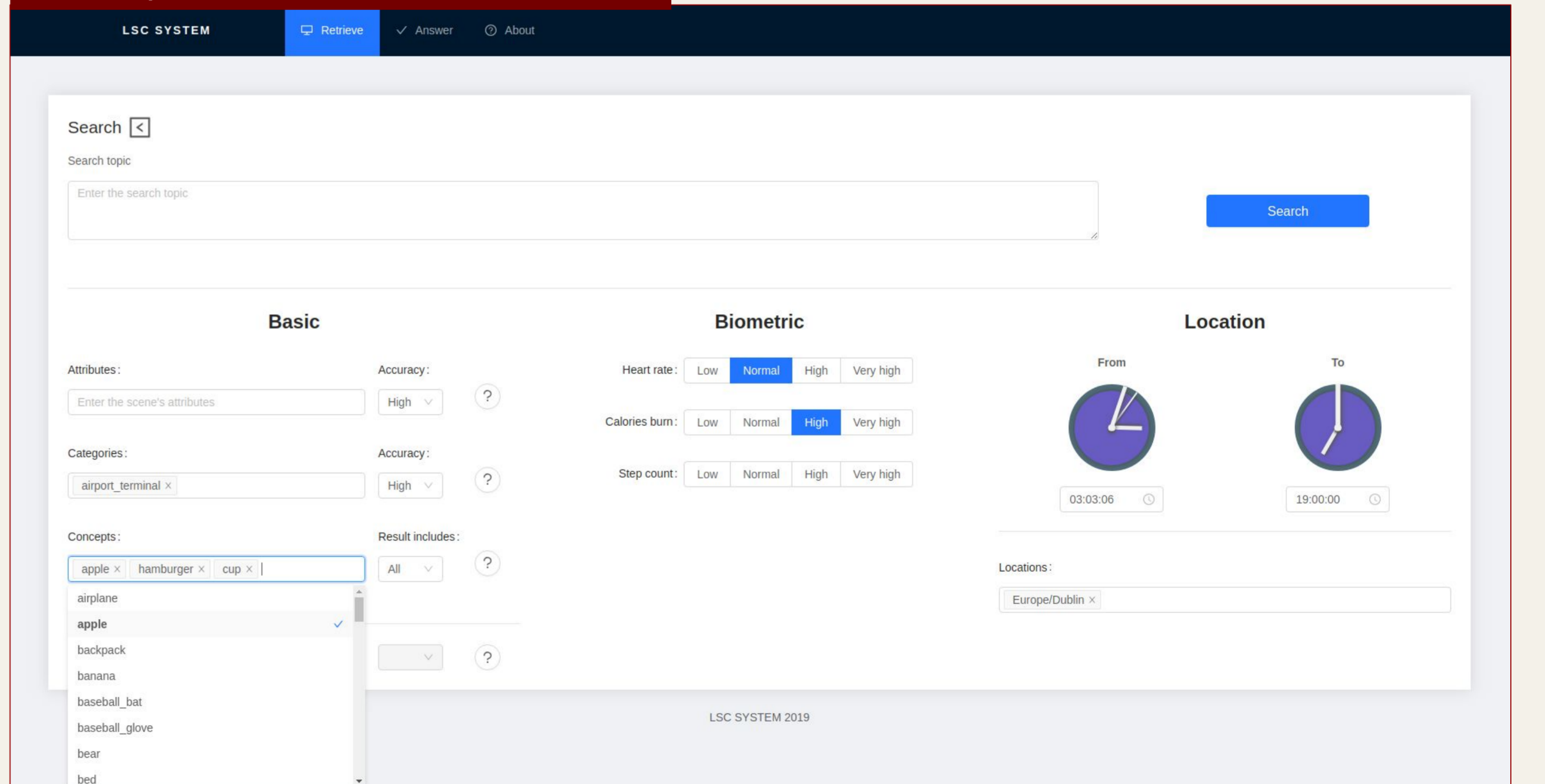
Sequence view of moments



Filter, reorder results



Search panel



CONCLUSION AND FUTURE WORKS

- There are still some aspects that our system needs to improve. The user still needs to picture the moments to decide what scene category the images should be, and what concepts should be in the images.
- In the future works, we will look into the aspect of natural language semantics to give our system the ability to understand the topic search and suggest more relevant inputs for the user.