**Speech recognition survey**

We are trying to integrate a speech recognition service into our ITPA app. User can interact with our APP through voice command. There are some open source libraries that can help us to do speech recognition. But the first thing is that we need to know what questions user may ask.

Our ITPA service will be divided into 5 categories. They are bus, bus station, bus route, garage and user position. The services we have for each category are listed below.

|  |  |
| --- | --- |
| **category** | **Service** |
| bus | 1. Dynamic bus position 2. Estimate arrival time for each bus |
| Bus station | 1. Show bus station 2. The estimate arrival time per bus stops 3. Nearest bus stop |
| Bus route | 1. Show bus route 2. Show nearest bus route |
| Garage | 1. Show parking garage 2. Show parking occupancy 3. Recommend a parking place |
| User position | 1. Show user’s position |

We need to know what questions you may ask ITPA in each category. For example, in bus category I will ask “where is the GPE bus” or “Show me the GPE bus”. So there are many different ways to ask the same question. Collect more questions will help us get more accurate result.

1. In bus category: get dynamic bus position

Your questions:

1)

2)

3)

4)

5)

2. In bus category: get estimate arrival time for xxx bus (xxx can be any bus line we have, such as CATS or GPE)

Your questions:

1)

2)

3)

4)

5)

3. Any other questions besides get dynamic bus position and get estimate arrival time for each bus.

1)

2)

3)

4)

5)

Bus station

1. Show bus station

Your questions:

1)

2)

3)

4)

5)

2. The estimate arrival time per bus stops

Your questions:

1)

2)

3)

4)

5)

3. Show nearest bus stop

Your questions:

1)

2)

3)

4)

5)

4. Any other questions?

Your questions:

1)

2)

3)

4)

5)

Bus route

1. Show bus route

Your questions:

1)

2)

3)

4)

5)

1. Show nearest bus route

Your questions:

1)

2)

3)

4)

5)

3. Any other questions?

Your questions:

1)

2)

3)

4)

5)

Garage

1. Show parking garage

Your questions:

1)

2)

3)

4)

5)

1. Show parking occupancy

Your questions:

1)

2)

3)

4)

5)

1. Recommend a parking place

Your questions:

1)

2)

3)

4)

5)

4. Any other questions?

Your questions:

1)

2)

3)

4)

5)

User position

1. Show user’s position

Your questions:

1)

2)

3)

4)

5)

1. Any other questions?

Your questions:

1)

2)

3)

4)

5)