iStop

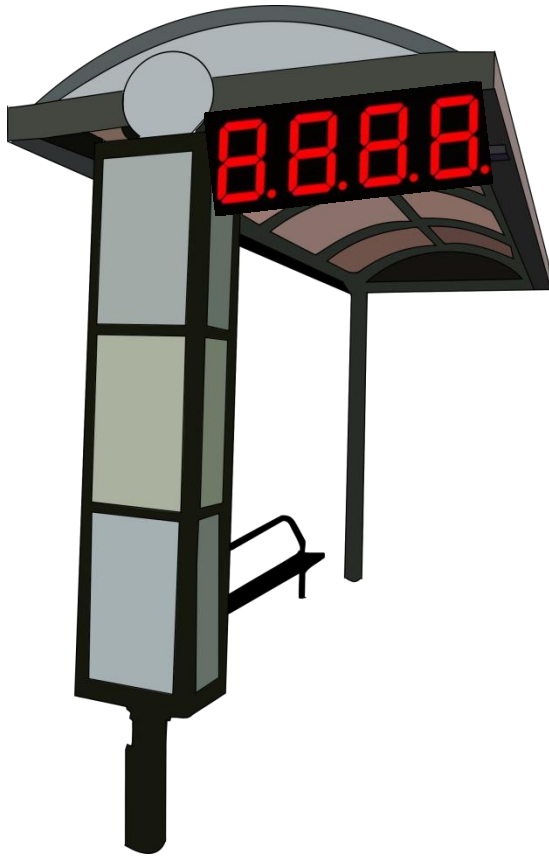Improving public transport for the visually impaired

Contacts

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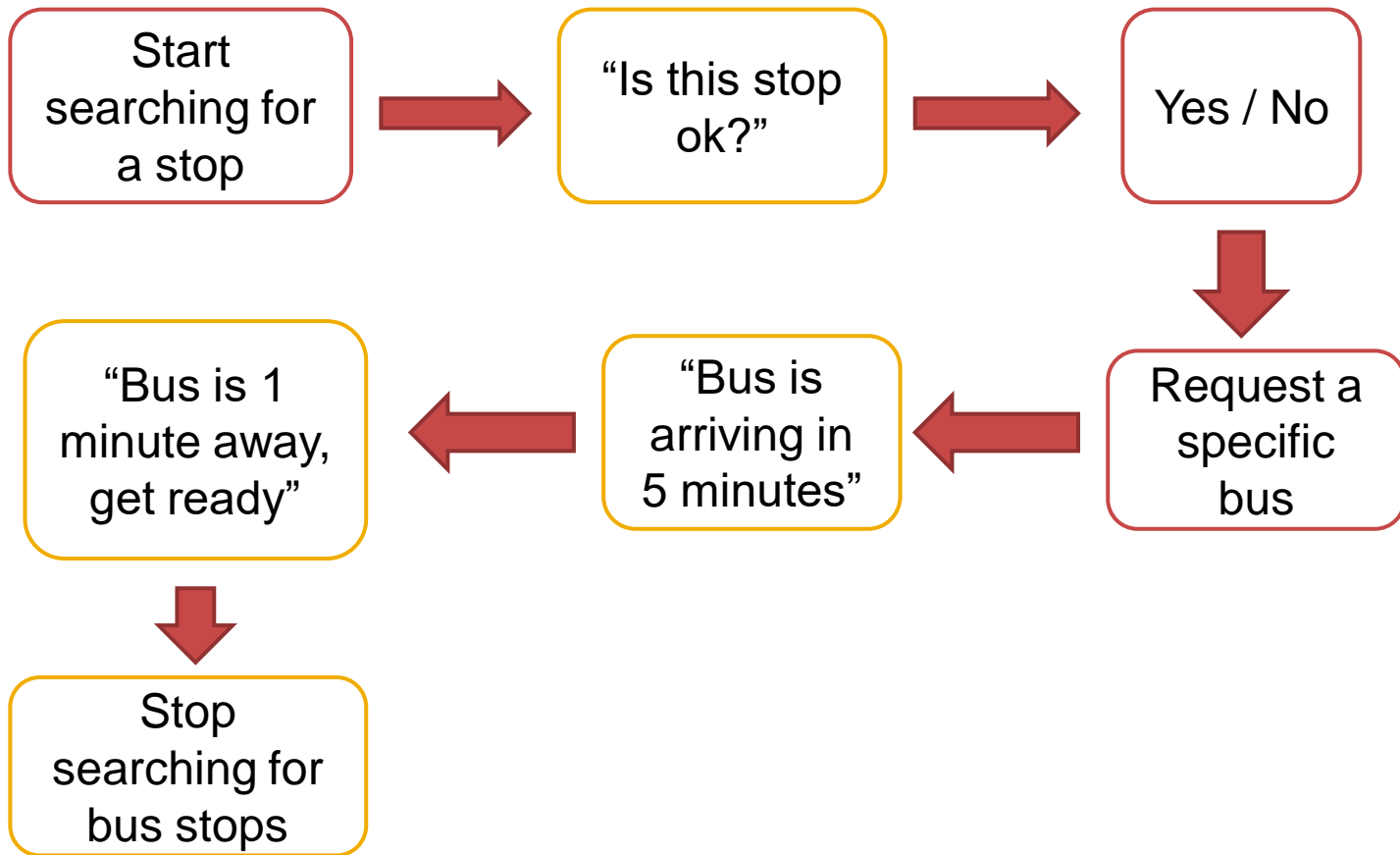- ami-2016.github.io/iStop/

The problem

- Visually impaired people rarely get to use public transport independently

iStop system

The app

```
┌─────────────────┐      ┌─────────────────┐      ┌─────────────────┐
│     Start       │ ───▶ │  "Is this stop  │ ───▶ │    Yes / No     │
│ searching for   │      │      ok?"       │      │                 │
│    a stop       │      │                 │      │                 │
└─────────────────┘      └─────────────────┘      └────────┬────────┘
                                                           │
                                                           ▼
┌─────────────────┐      ┌─────────────────┐      ┌─────────────────┐
│  "Bus is 1      │ ◀─── │    "Bus is      │ ◀─── │   Request a     │
│ minute away,    │      │   arriving in   │      │    specific     │
│  get ready"     │      │   5 minutes"    │      │      bus        │
└────────┬────────┘      └─────────────────┘      └─────────────────┘
         │
         ▼
┌─────────────────┐
│      Stop       │
│ searching for   │
│   bus stops     │
└─────────────────┘
```

SmartPole components

- Raspberry pi
- Loudspeaker
- 7 segment led display