

Introduction:

Work is an important part of our life. Often work becomes the second most important thing that ever happens to us in our life, apart from getting the perfect life partner of course. Since work becomes a part of our daily life it becomes a routine activity and often gets monotonous in certain ways. Despite a lot of usual things, smart people make their own ways of making work interesting thus adding spice to our precious life. Nobody willfully gets to be in a job that bores in almost all kind of ways. Having a personal assistant/secretary who helps us be more productive is almost everyone's dream as that will make our life a lot easier. But it is not possible for everyone to have it. But given the tremendous growth in technology, it is now feasible for everyone to have a smart personal assistant at work to make work more interesting, productive and super easy. Adding to that you need not pay salary your assistant, doesn't it make it more interesting?!

Being in a huge corporate world, we often get lost literally. Yeah, most of the tech giants own huge blocks of buildings and they operate in a seamless way, but being humans we often tend to remember all details of what is where in the real world. On a specific note, being at work which involves lots of floors, partitions, and wings, we often wind up moving across various parts of the mazes that we live across. With smart personal assistants, this can very well be addressed by making our workplace a lot easy to move and comfy to work.

The proposed solution:

The proposed solution is a smart chat bot which can talk to you entirely on office context. We name her "Donna" after Donna Paulsen, the cheekiest and smartest personal assistant of Harvey Specter in the famous American TV series "Suits", portrayed by Sarah Rafferty. The primary responsibility of Donna is to help you internally navigate in you huge corporate office and get you things done. Apart from internal navigation, she can also help you more productive, healthy and smart in a lot of ways. The proposed system can be integrated with public announcement systems, office update systems, food provider systems, business emails and meeting management systems etc, to help you at your work. Following are the sample conversations you can have with Donna.

**You:** "Hey Donna, Morning"  
**Donna :** "Wow, You are early today"  
**You :** "Yeah, thanks to no traffic. Hey, Can you check on my meetings around 11?"  
**Donna:** "You have no appointments today from 10 to 12, You have any specific thing on your mind to do at that time?"  
**You:** "Thats great, I'm really hungry I wanna grab breakfast at 10"  
**Donna:** "Oh, Lucky you. They are serving Bagels today at cafeteria, have a yummy breakfast"

**You:** "Donna, I wanna meet Benjamin at IT and I'm meeting him for the first time"  
**Donna:** "Yeah. Don't worry, I know the shortest route through Wing 1 and you can reach there in a jiff"  
.. here comes the voice assisted internal navigation system across various parts of the corporate office...

Proposed Features:

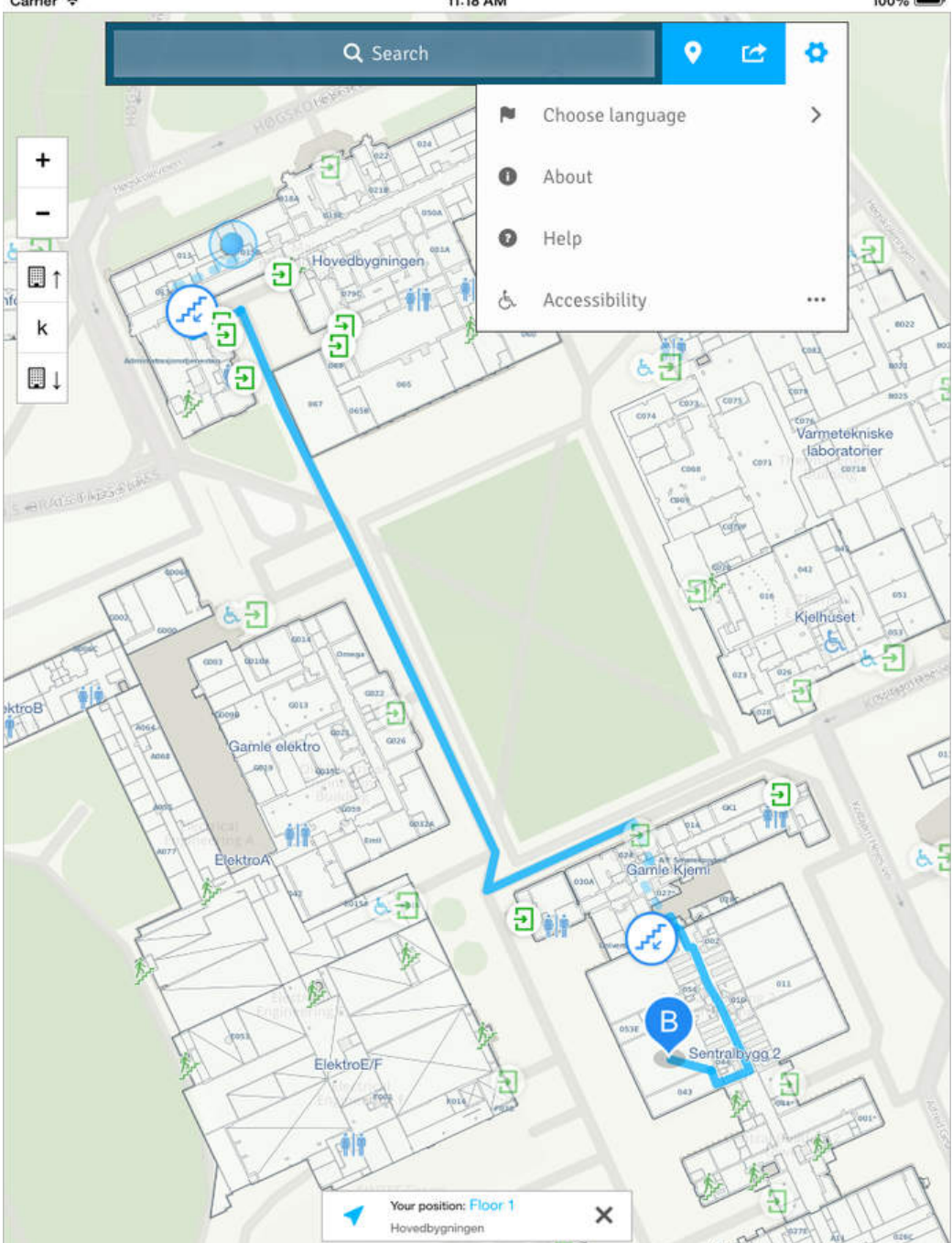
We are making the system platform-independent such that it can even be integrated with systems like Amazon's Alexa, Google's home dock etc to make it more conversational and user-friendly. The following are the major user journeys are features in the proposed system.

- Integration with Office emails, calendars and information channels.
- Internal navigation system across various parts of the huge IT parks. With additional capability to help you navigate faster and safer in the case of emergencies.
- Personalized, Context retaining chat bots that can connect to various information systems like public announcements, divisional events, office celebrations, cafeteria information channel etc to help you serve better.
- Reminders, scheduling meetings, booking conference rooms sensing the meeting type etc.

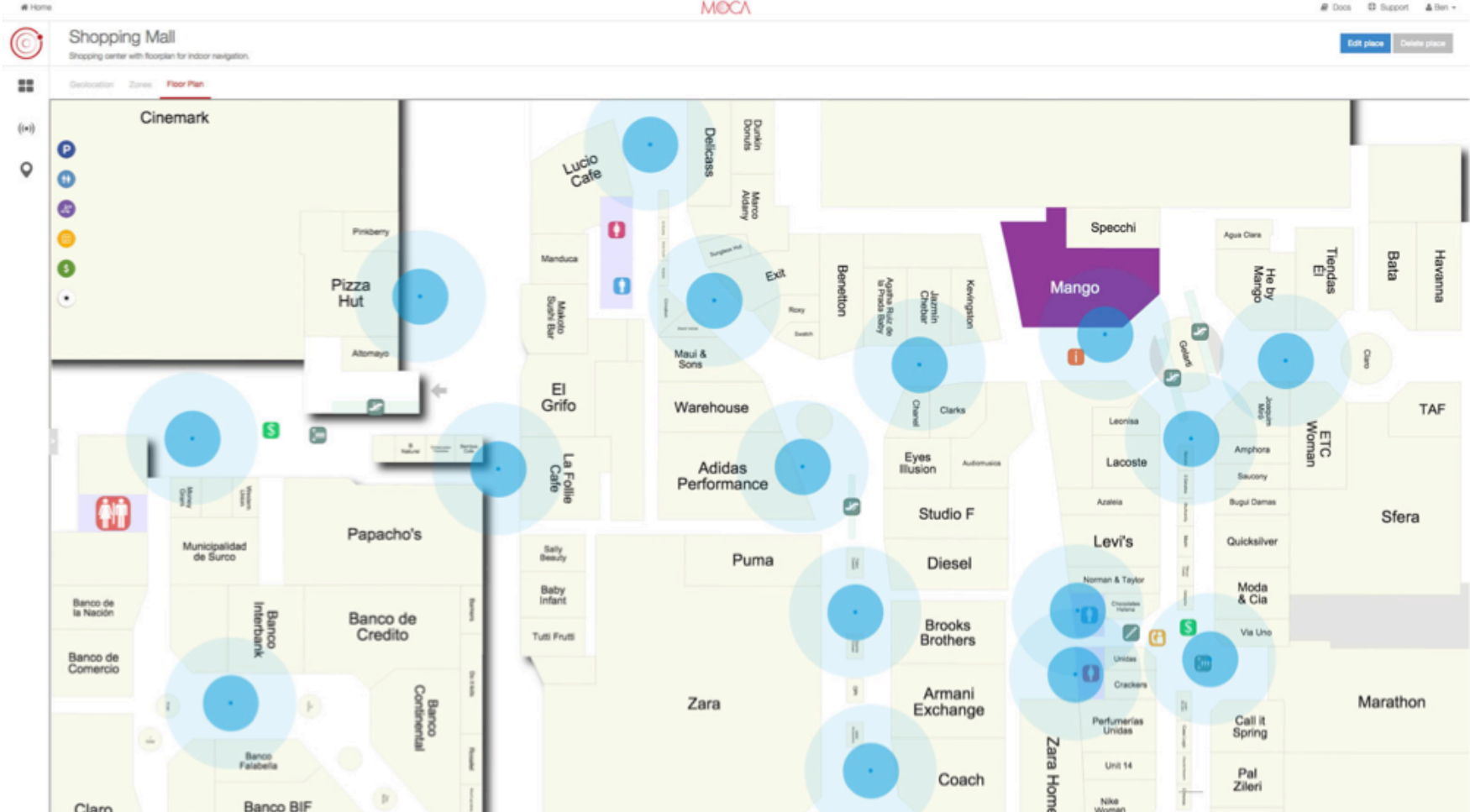
Sample User flows:

The following are the sample user flows of the proposed system.

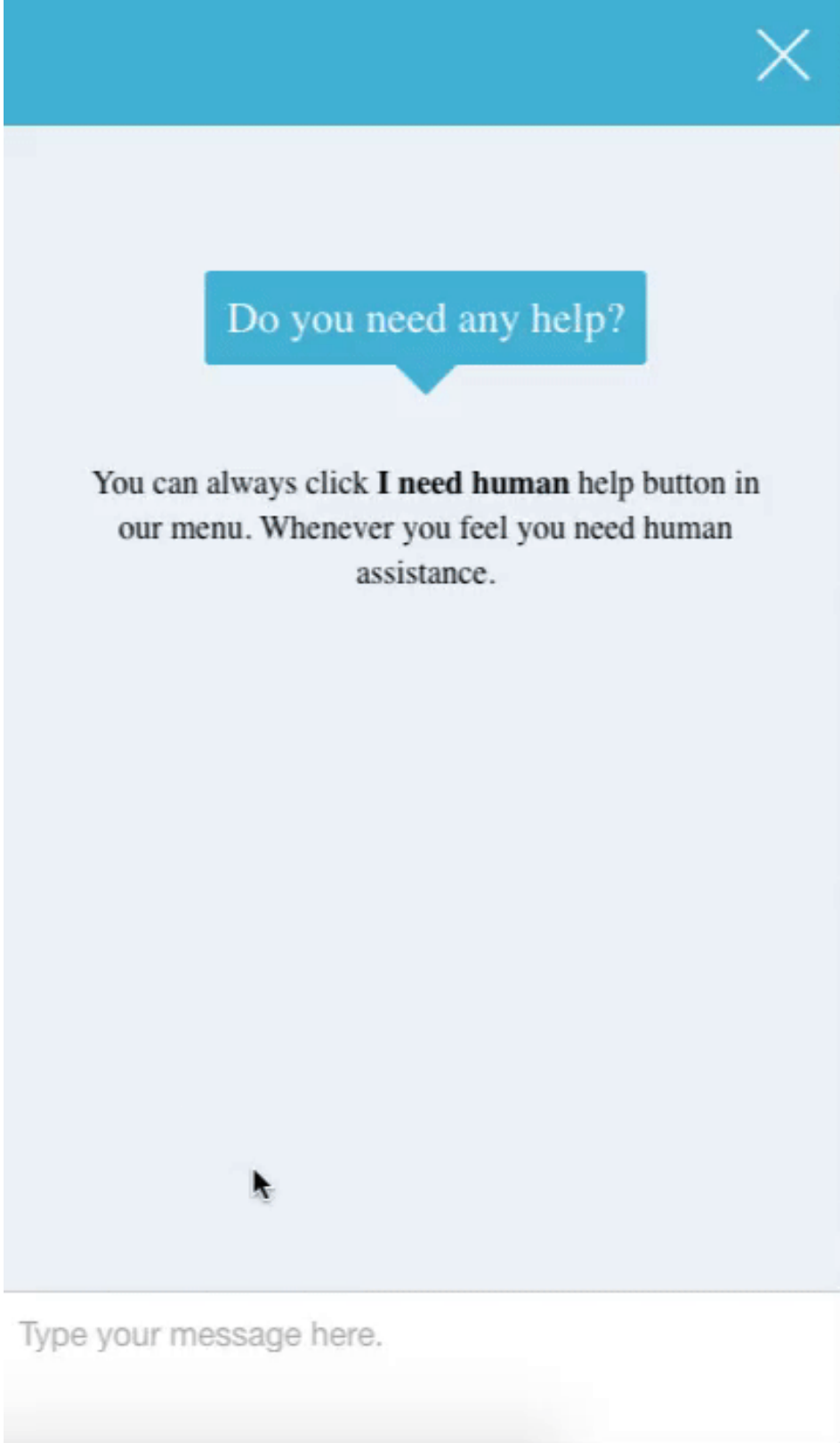
Indoor Navigation:



Geofencing:



Chat bot services:



Reminders and alarms:



Possible add-ons:

This system can be integrated with various devices using IoT technology to make a lot of interesting things such as

- Making personalized coffee, orders/prepare food.
- Virtual office at home or vice versa that helps you virtually feel the environment in various ways.

Send emails for you. Ping someone from your behalf etc.

Technology and References:

- Maze Map For indoor navigation: <https://www.mazemap.com/indoor-maps>
  - <https://blog.mazemap.com/4-ways-mazemap-helps-to-create-efficient-buildings/>
  - <https://stackoverflow.com/questions/23336683/create-map-for-indoor-navigation>
  - <https://stackoverflow.com/questions/11651931/how-to-design-an-android-indoor-map-of-a-building>
- Geo fencing technology : <https://estimote.com/indoor/?gclid=CMbCwcrnqNQCfdalaAodksoD-Q>
  - <http://blog.mocaplatfrom.com/how-to-use-geofences-and-beacons-to-engage-mobile-users/#.WTQqXxOGPFy>
- Chat bots from Microsoft Azure: <https://azure.microsoft.com/en-in/services/bot-service/>
- Contextual chat bots: <https://api.ai/blog/2015/11/23/Contexts/>
- Office apps integrations with custom applications: <https://blog.todoist.com/2016/12/05/todoist-tasks-email-calendar/>