

Project Proposal – Iplan Application

CS 5551 ASE

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Introduction:

The word “Physical disability” describes the physical limitations of an individual to perform any task like a natural human being. The one of the most observed limitation is, people who bound to the wheelchair entire day in their work. But still they won't give up to do things, they can be able to achieve it with some difficulties. If we consider a student who is going to school then one of the most common barrier for his academic success is access. In other words access means, going from a campus to the other campus, locating the place correctly, and alternative route to travel if the regular route are inaccessible. Students with physical disabilities are typically very knowledgeable of both their limitations and abilities. So it is important to treat students with physical disabilities with an extra care and make them to communicate their needs with others to achieve their regular tasks without any difficulties.

Motivation:

Each year a good number of students apply to UMKC who are suffering from physical disabilities. The university provides equal opportunities and facilities to these students. However these students need extra care and they need to plan ahead of others as their disabilities restrain themselves to act fast. A scheduler application oriented to serve this community therefore can come in handy. Having specific information regarding the type of disability, the scheduler can assist them more accurately and precisely. Our main idea to build this project is to help them to overcome some of the following limitations that will help the students to succeed in the college and compete with other people around.

Some of the limitations of students with physical disabilities are:

- Difficulty in scheduling the time to complete the assignments.
- Completing their tasks within the time deadline.
- Accessing classrooms or buildings that are not accessible.
- Participating in labs or classes where it is hard to reach.
- Transportation from a campus to another campus.

Design features:

The application expected to have following features:

1. Daily schedule planner.
2. Navigation to destination.
3. Reminder.
4. Emergency contact.
5. Audio direction service.
6. Request a ride.
7. Assistance request.

Technical Requirements:

Mobile Device Specifications:

- Operating System : Android or IOS
- GPS functionality
- Internet

Application Specifications:

- Database: SQL Server.
- Programming languages: C#, Java
- Front end: ASP .net, HTML 5 , JQuery Mobile

Usefulness to the users:

With the help of the application the user can get following services:

- Plan his/her schedule and will be reminded before the class accordingly.
- Direction to destination with the help of map navigation.
- Look into available transportation facilities and request accordingly.
- Contact the emergency.
- Communicate with peers through social media.