# Functional Specification of Doctor Scheduler

## Summary:

This software is expected to allow doctors to post their daily/weekly work schedules and make changes in real time. It will also allow anyone else (e.g. patients) to check a doctor’s schedule and whereabouts from a mobile device.

## Notes:

* Although the first target is ‘doctors’, we will extend this app to other users as we go along. There are other use cases, such as trainers, visiting lecturers informing their students – that are feasible once the app is established and the app should be open enough to add people other than doctors. We will hence think about nomenclature, app name etc. that is more generic and represents the utility rather than a specific end user.

## Components:

This software consists of the following interfaces:

1. Doctor: A mobile application. We will call it Docapp.
2. Patient: A mobile application. We will call it Patapp.
3. Secretary: A browser app for Doctor or his/her secretary. We will call it Secapp.

### Docapp:

This mobile application will be used a doctor. It will let the doctor upload his/her schedule information. It will also let the doctor post his/her whereabouts in real time.

### Patapp:

This mobile application will be used by a patient. It will let the patient search for a doctor and then view the doctor’s most current schedule.

### Secapp:

This browser application will be used either by a doctor or his/her secretary. It will essentially do the same job as the Docapp.

## Specification of Docapp:

### Workflow:

1. We will create a database of doctors to the extent possible (by browsing the Net) and give them registration codes that they can use to create their accounts. This will be an efficient way to get doctors to sign up without too much work.
2. When a doctor goes to sign up, as soon he enters the registration code, he will see his name automatically filled up, and then he will use his other social media account (Google or Facebook) or a new one (with email/password) to create his account.
3. ENTRY SCREEN
   1. **Scenario 1: First usage**
      1. Sign up screen. Enter registration code. Multiple options to create credentials:
         1. Facebook (requires user to sign in with Facebook account)
         2. Google (requires user to sign in with Google account – this is easily facilitated on an Android platform)
         3. Email + password
      2. Additional signup features:
         1. Verify password (thru an email link),
         2. Captcha (image text)
      3. Create profile
         1. Set profile picture (if logged in with Facebook or Google, then automatically set to Facebook or Google profile picture)
         2. Set profile full name
         3. (Optional) Set phone number (i.e. primary work contact)
         4. (Optional) Set details (education, experience, area of expertise, etc.)
      4. Create weekly schedule:
         1. Add locations of work and timings
         2. For every day of the week
         3. Specify (thru checkbox) if “by appointment only”
         4. (Optional) Drop-down list of work-places to save typing
   2. **Scenario 2: Return usage**
      1. Sign in screen. Option to save password
         1. Email + password (default)
         2. Facebook
         3. Google
      2. Edit profile
      3. Additional account features:
         1. Change password
         2. Verify password (thru an email link),
         3. Hint Question in case password is forgotten
         4. Captcha (image text)
      4. Edit weekly schedule:
         1. Rename/delete a place of work
         2. Add a new place of work
         3. Change the timing at a place of work
      5. Send real-time (temporary) schedule updates
         1. Pick a place of work (from drop-down list)
         2. Type in an update (e.g. “late by 1 hour” or “on leave”)
         3. Drop-down list of suggested updates
4. HOME SCREEN: Based on current time the screen will show current location.
   1. Option to change current location (temporary change, will not change profile)
   2. Option to edit profile (which includes weekly schedule)
   3. Option to edit today's schedule

### Docapp Screens:

To be done later (after finalizing the functionality)

## Specification of Patapp:

Workflow:

1. HOME SCREEN
   1. My Doctors
   2. Add new Doctor
2. MY DOCTORS VIEW
   1. Simple list view of all the selected doctors
   2. Each doctor can be selected/expanded to show "DOCTOR VIEW" for that specific doctor
3. DOCTOR VIEW
   1. Shows current location/status
   2. Full week view
   3. Details view
   4. Contact view – directly links to <doctor>'s work phone, email, etc.
   5. Show all other details from <doctor>'s database file
4. ADD DOCTOR VIEW
   1. Access to public database, search algorithm by name, email, contact #, specialization, location, etc. (I guess we will facilitate search within the app database too so that they can quickly search for doctors in a specific locality or based on specialization etc. This will also help us go towards a paid version in the future where those who pay would show up on top of search just as google does)

## Specification of Secapp: