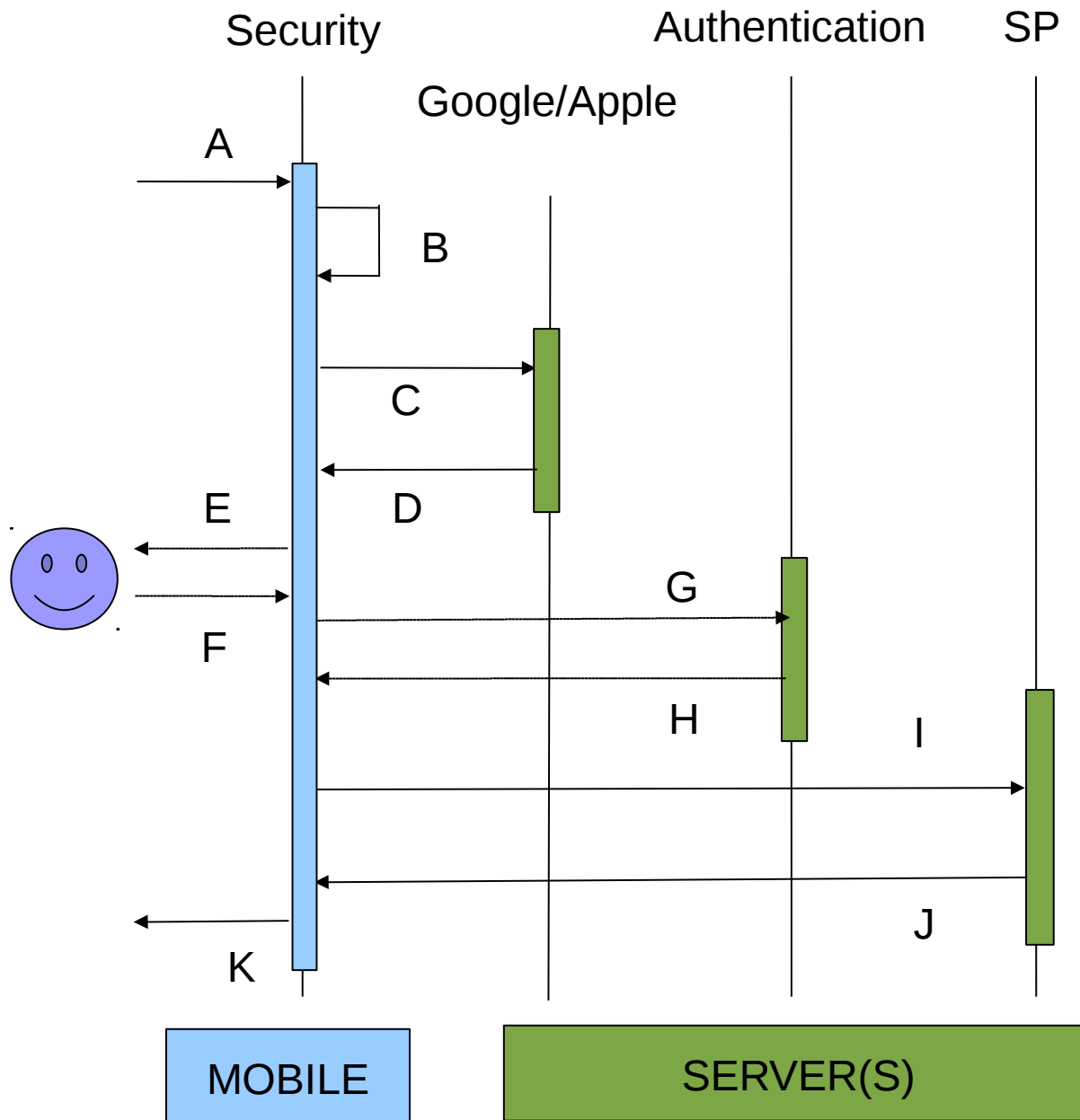


BTH app

- SP = Student portalen.

Registration

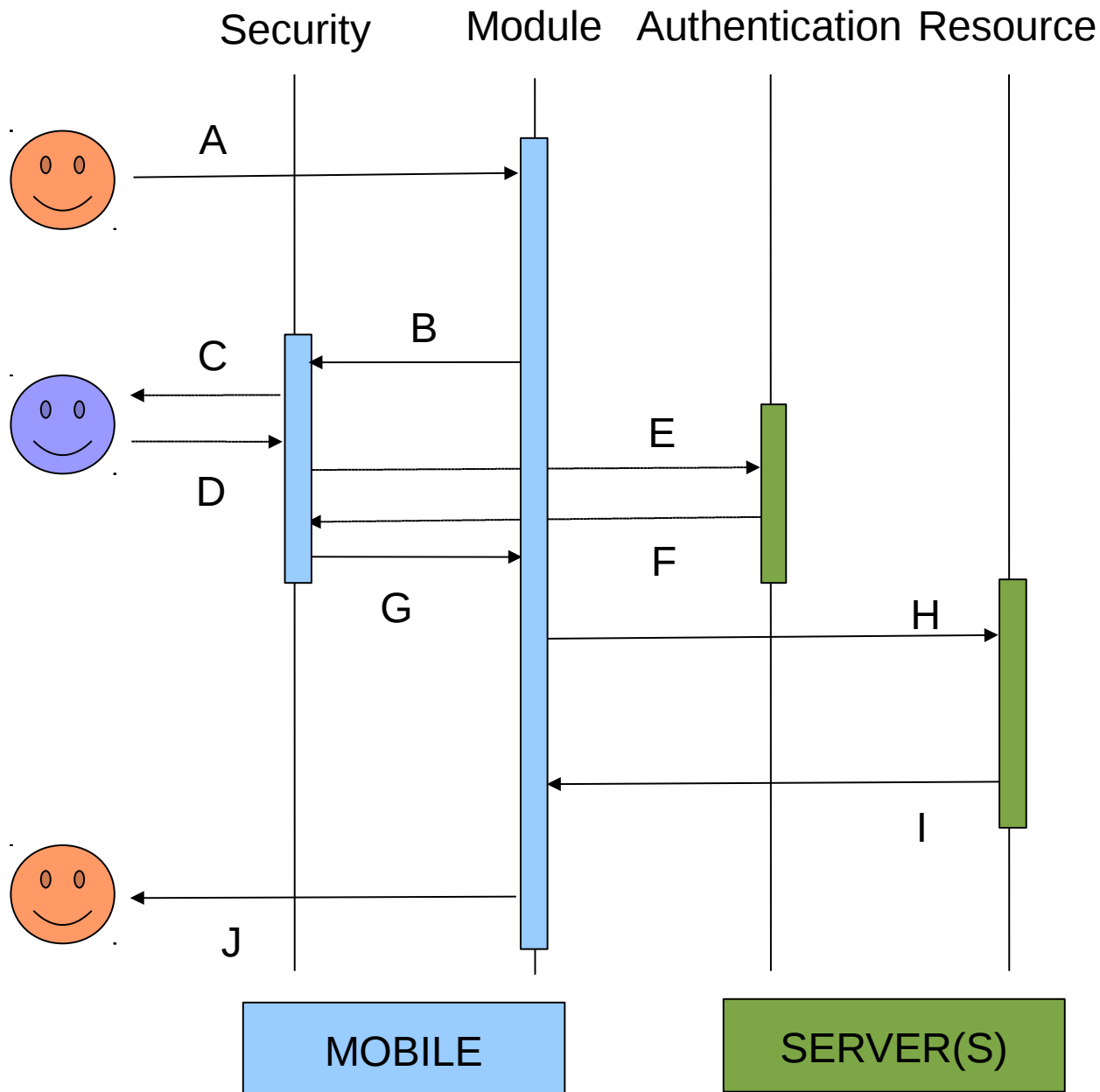
- Registration of mobile device on Authorization Server.
- Must be a valid SP user before doing this.
- User grants this device to receive push notifications and registers relation between user & device on server.



- A – Registration is initiated
- B – Produce device specific id for BTH app.
- C – Connect to Google/Apple
- D – Push Token is returned.
- E – If needed: The user is asked for credentials.
- F – User inputs credentials.
- G – If needed: Credentials and device specific ID is sent to authentication server.
- H – OAuth Token is returned to security.
- I – Registration of Push Token.
- J – Response with status.
- K – Module presents status to user.

Security

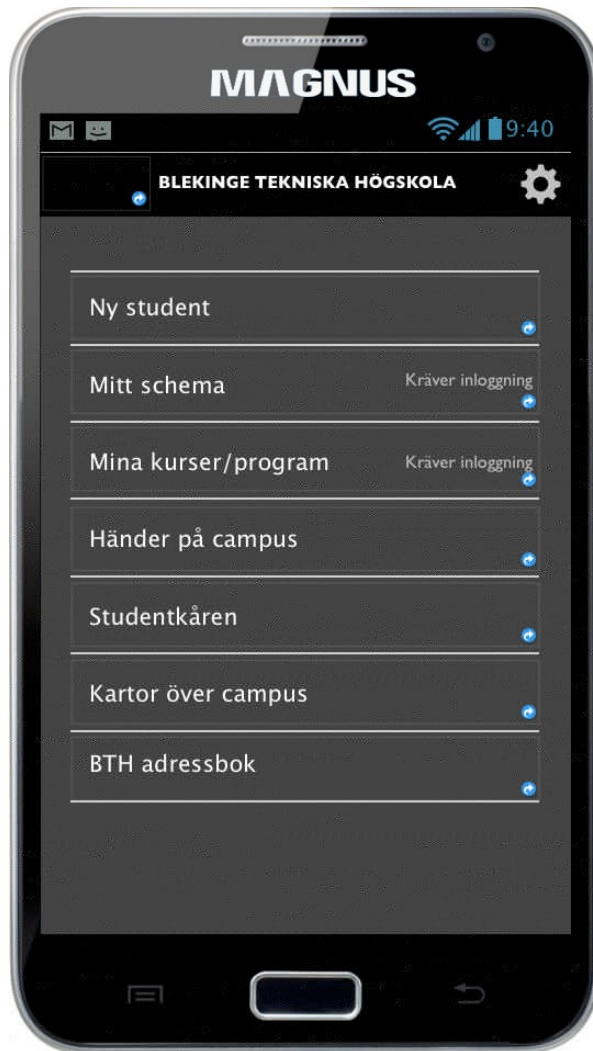
- Get Access Token from Authorization Server.
- Caches Access Token as long as needed (until explicit logout or token is timed out).
- Handles token state.
- Gets credentials from resource owner.



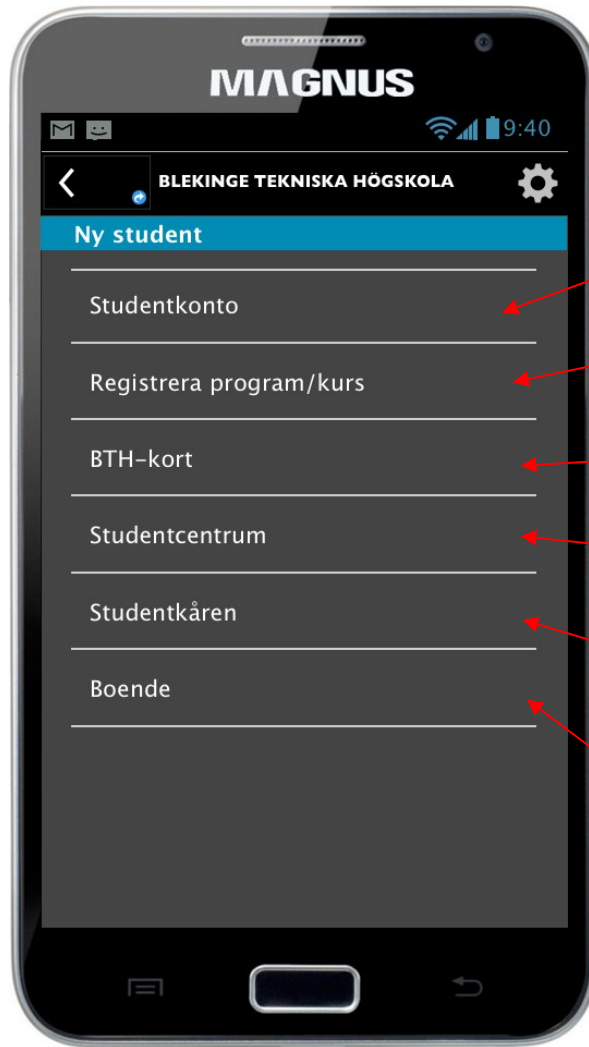
- A – User initiates sequence
- B – Module asks security for a valid token.
- C – If needed: The user is asked for credentials.
- D – User inputs credentials.
- E – If needed: Credentials and device specific ID is sent to authentication server.
- F – Token is returned to security.
- G – Token is returned to Module.
- H – Request is sent to resource server with Token.
- I – Response returned to module.
- J – Module presents Response to user.

1

- Text in Swedish and English.



2



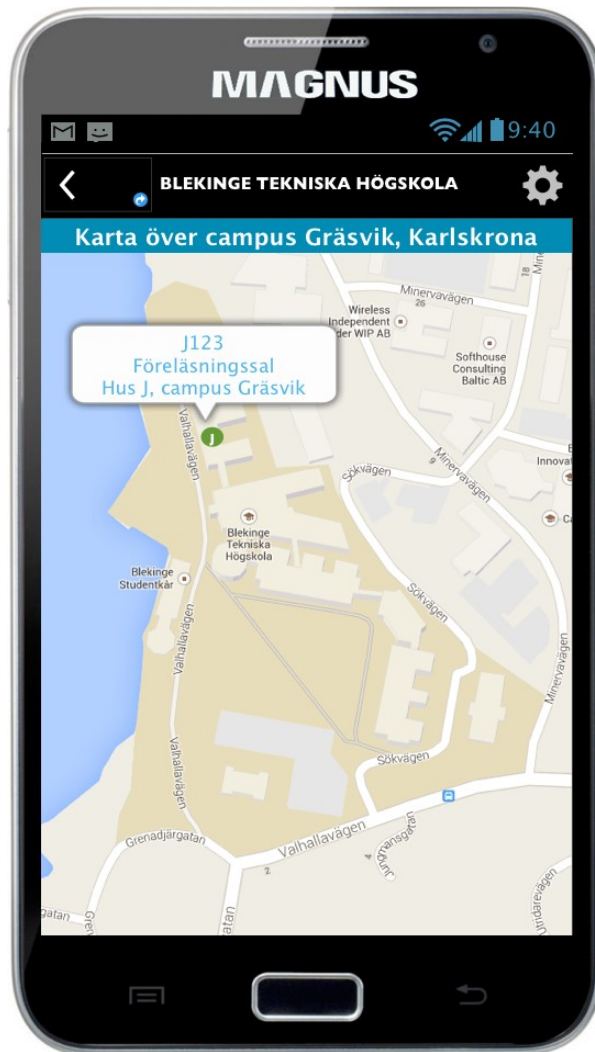
- Info for new students.
- Text from SP
- Ladoc (through SP)
- Text from SP
- Text from SP
- Reference to xxx.
- Text from SP

3



- Schema
 - Course title
 - Course code
 - Time
 - Location (room number)
 - Geographical location.
- Information from
 - Ladoc
 - TimeEdit

4



- Show location of room
 - lat/long
 - Room #
 - Description
 - House
- Information from
 - GIS

5



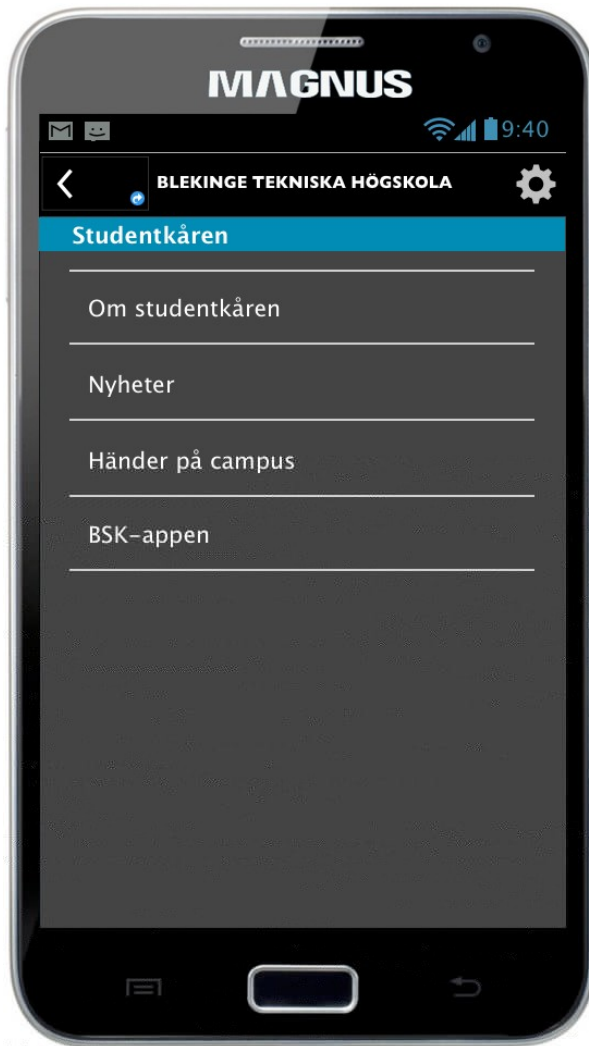
- Register on a new course.
- Get my courses
 - Name
 - Code
- Information from
 - Ladoc

6



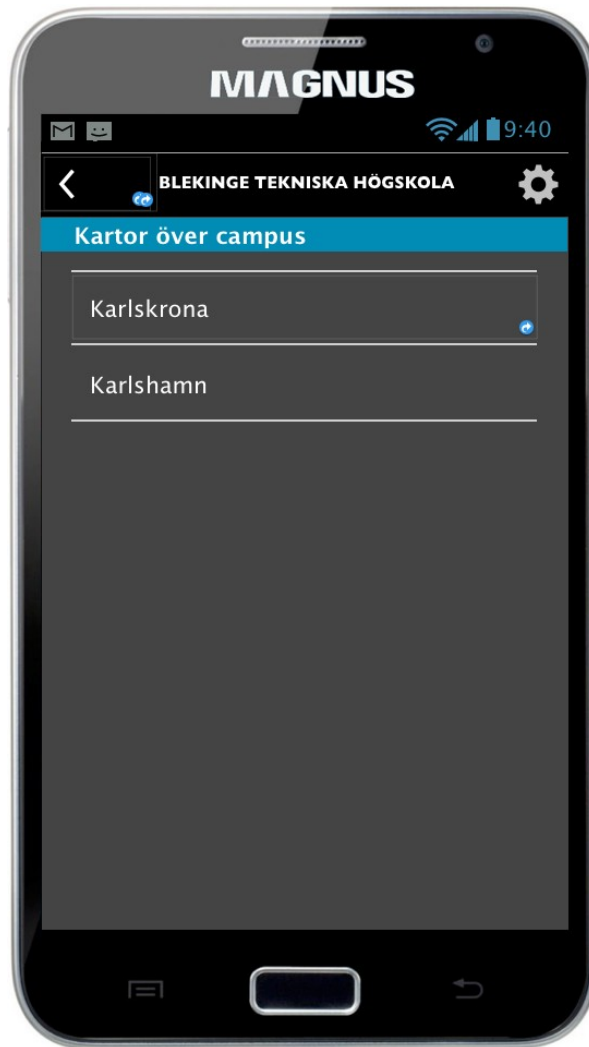
- Events on campus
 - Web page
 - PDF
 - RSS
- Information from
 - Smart sign

7



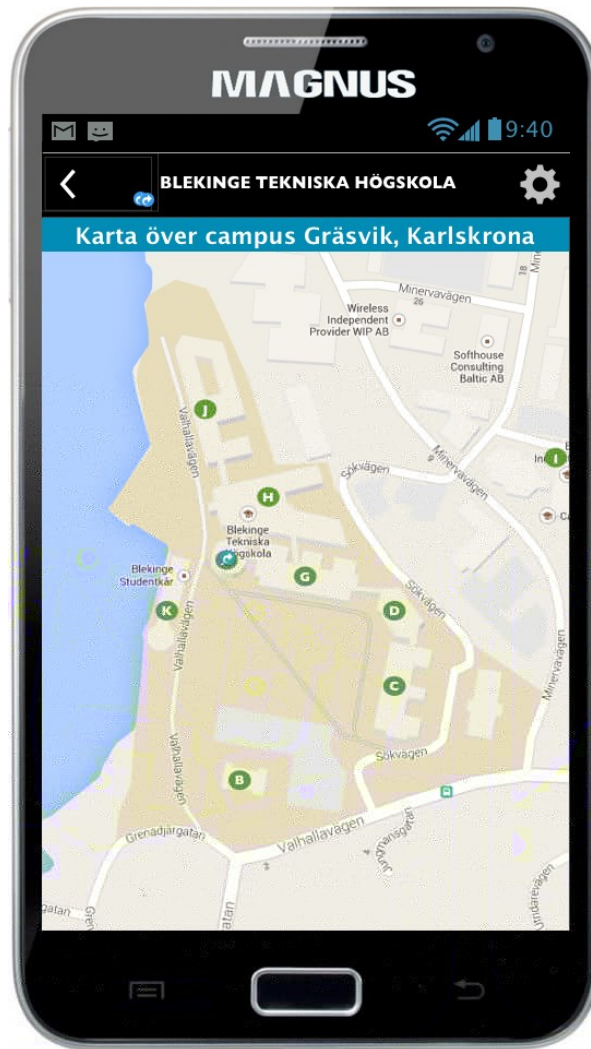
- 3 alternatives
 - Replace with link to web
 - Replace with intent to app
 - Merge from existing app.

8



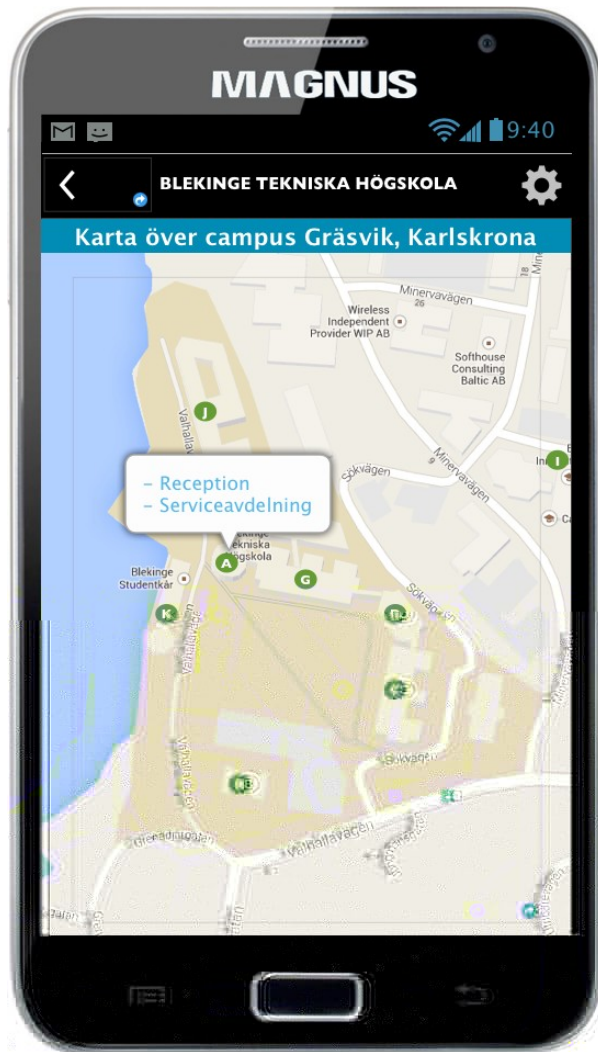
- Campus
 - Name
 - Location (rectangle)
 - Icon
- Information from
 - GIS

9



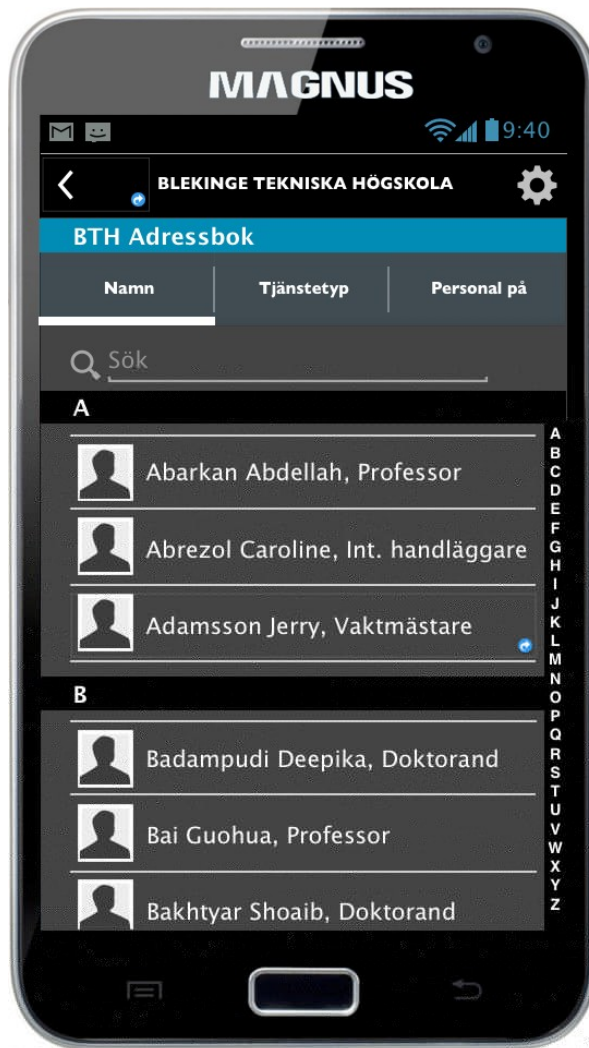
- Campus overview
 - Building
 - Description
 - Lat/long
- Information from
 - GIS

10



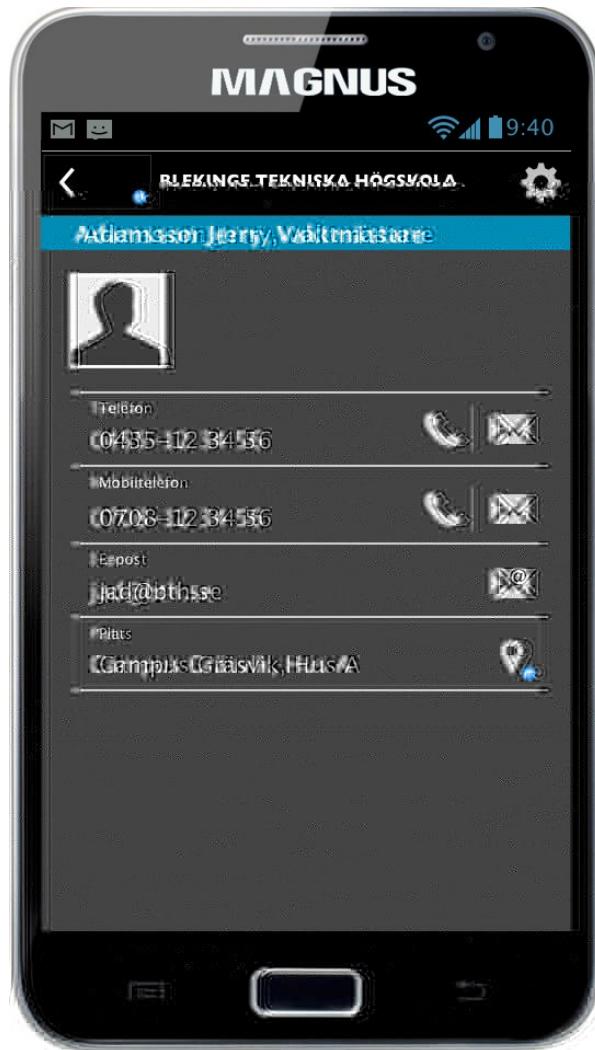
- Campus details
 - List of major departments.
- Information from GIS

11



- Address book
 - Name
 - Title
 - Type
 - Organisational unit
- Information from
 - BTH address book

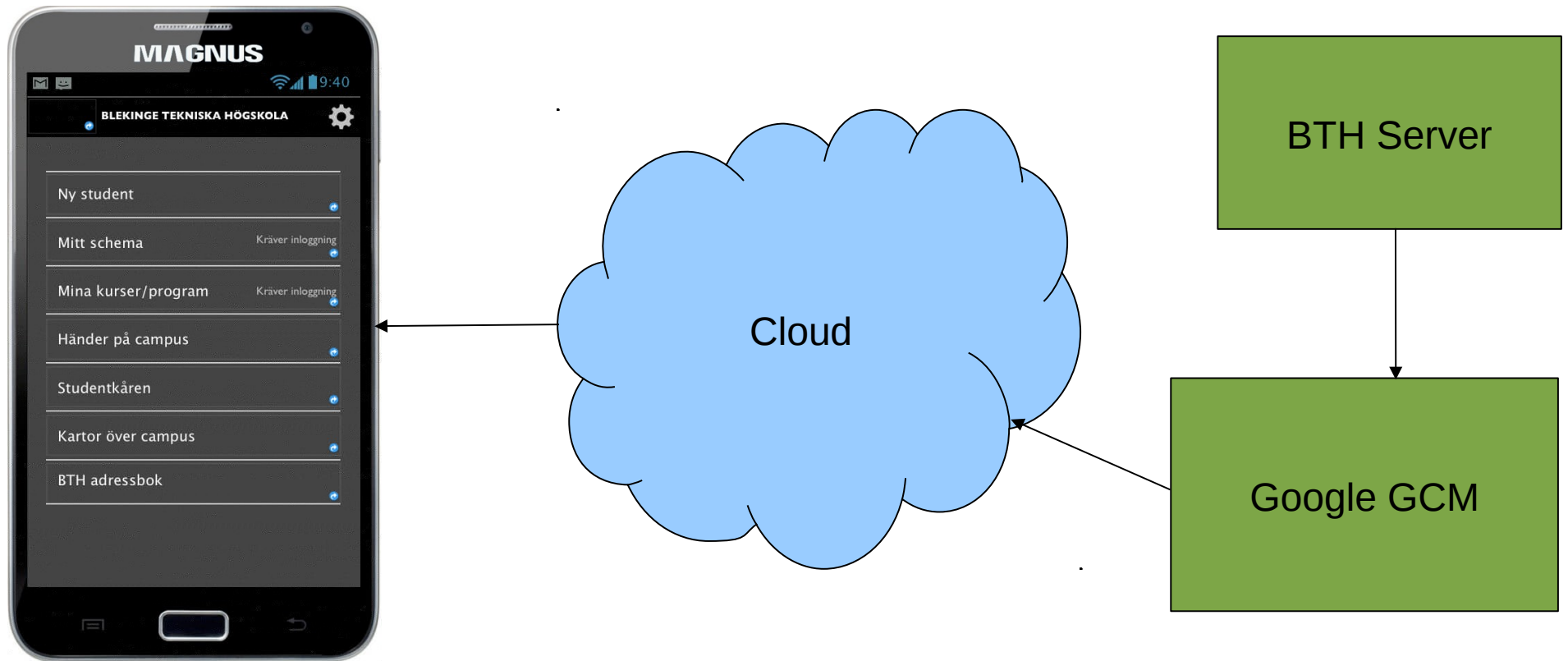
12



- Contact details
 - Name
 - Akronym
 - Mail
 - Phone
 - Mobile
 - Fixed
 - Homepage
 - Section/unit
 - Title
 - Location

Push notifications – Google Cloud Messaging

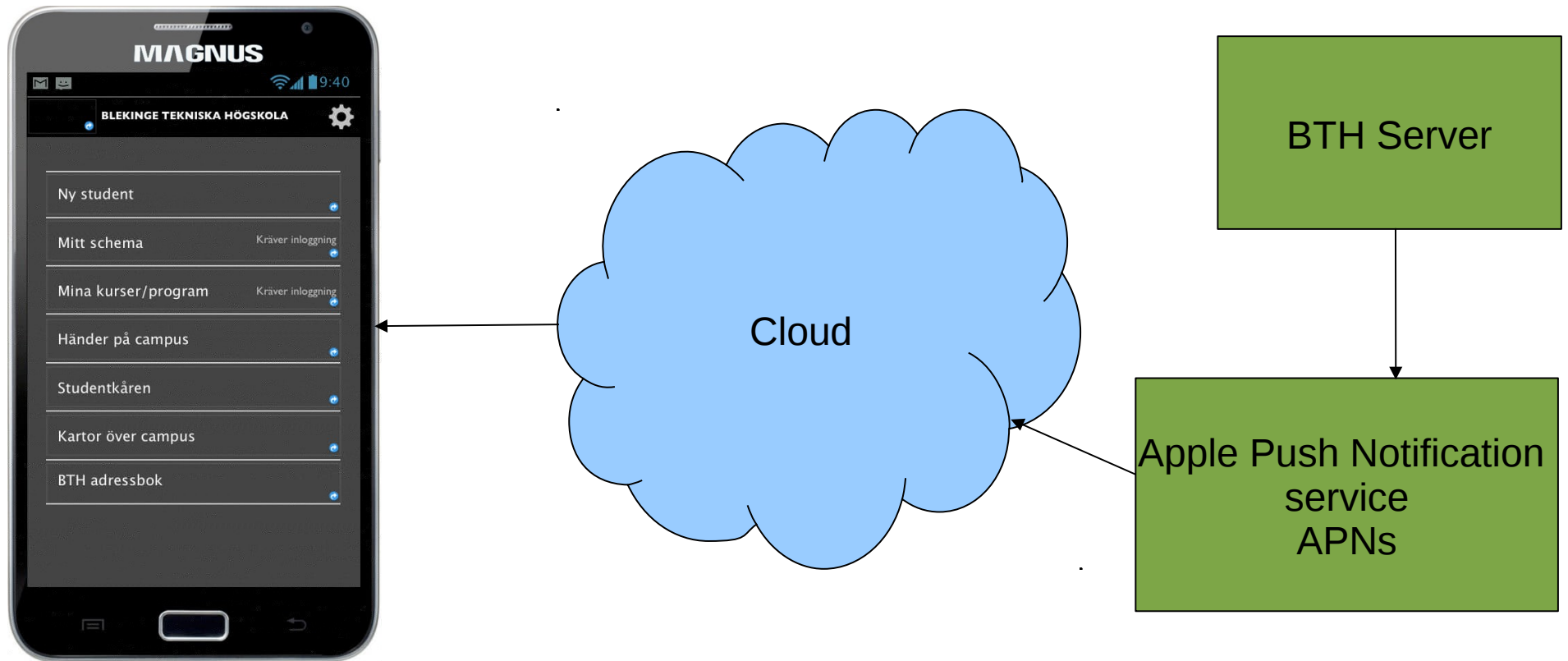
<http://developer.android.com/google/gcm/gcm.htm>



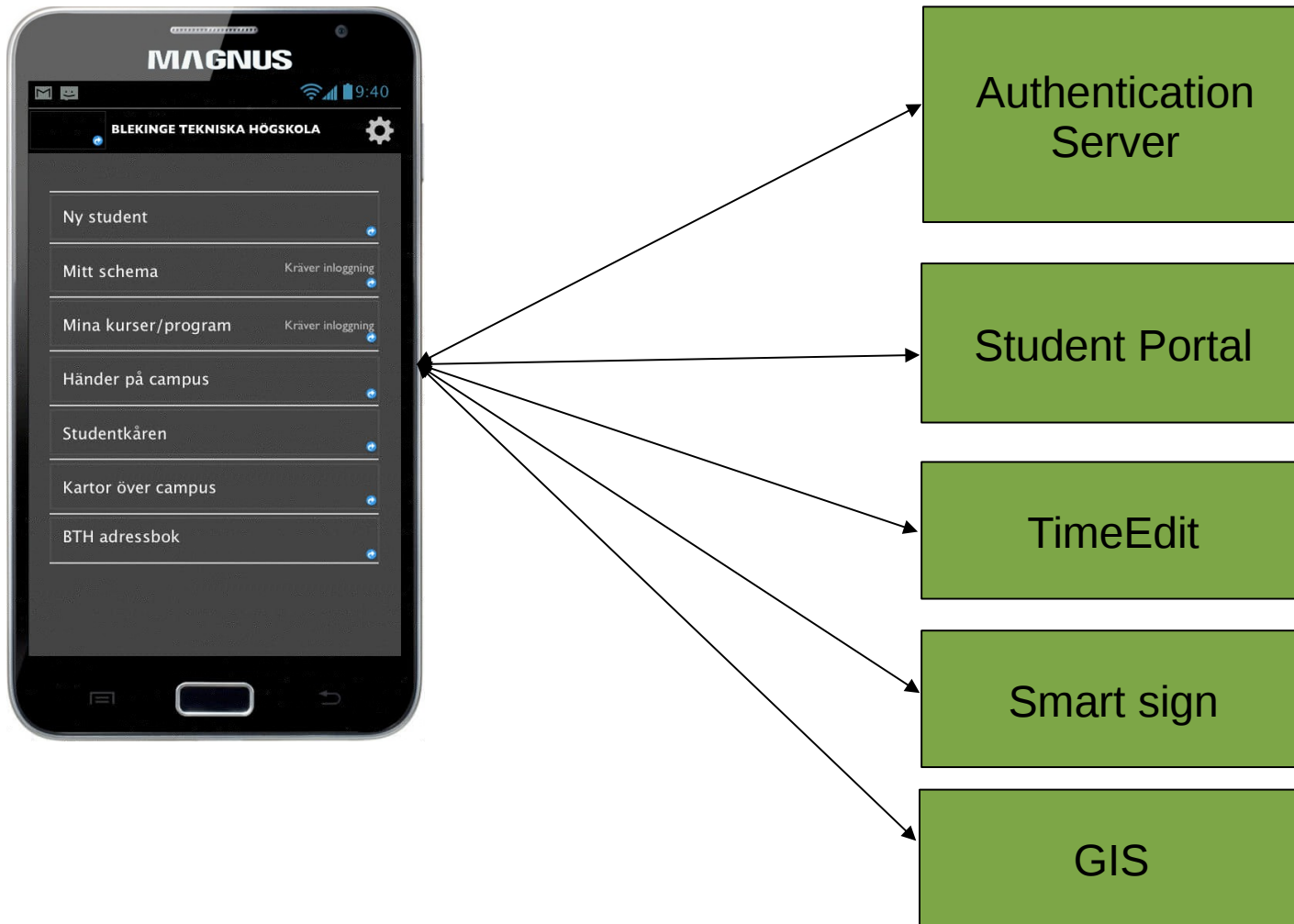
<http://developer.android.com/google/gcm/client.html>

<http://developer.android.com/google/gcm/server.html>

Push notifications - Apple Push Notification Service



Mobile and external systems



Android

