NDN Maps application

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Motivation

- The idea is to design and develop an outdoor map application that will use the NDN architecture:
    - The application will include a client (mobile device app) running on an android platform and a server that will act as a NDN gateway between the client and google maps servers (we will use their API)

Contribution to NDN

- Explore NDN features on an android environment
- Explore the namespace design for outdoor maps
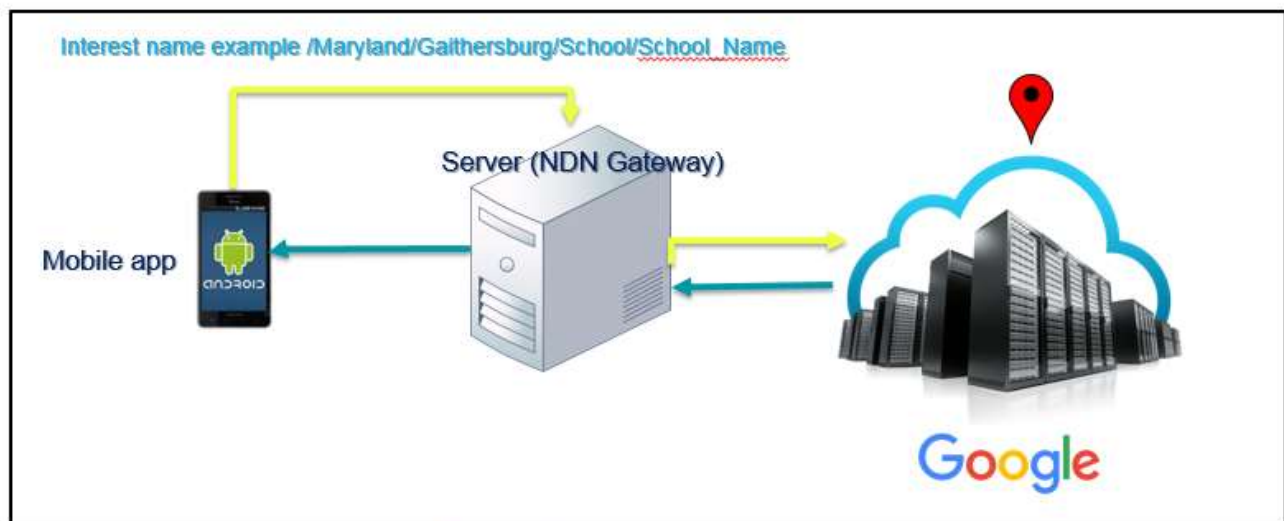- Create a new type of applications

Figure 1: Proposed architecture

Tasks

- Come up with a suitable namespace for this application
- Design a suitable application architecture (e.g. Figure 1)
- Configure NDN on an android platform
- Develop the client side (user's mobile device application):
- Develop the server side

Required Knowledge for Participants

- Be familiar with JAVA and android development
- Be familiar with web app development (e.g. JavaScript)
- Be familiar with the NDN forwarder
- Be familiar with any of the NDN libraries

Expected Outcome

- Demo: Get GPS locations, display maps and get directions to a desired location through NDN naming with the developed mobile application