Supervisior:

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A Mobile Application for Quick Information Retrieval Associated with a Building

ViFiiTeam:

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Multiplatform

- PhoneGap is a free and open source framework that allows you to create mobile applications using web technologies such as HTML5, CSS3 and JavaScript and deploy it on different platforms such as Android, iPhone, Window Phone and others.

Code Scanner

- Used to scan QR codes, which will be in the building
- QR codes contains vCard
- After scanning shows information about teacher/room

Map of the building

- Interconnected with information system (AIS)
- Contains maps of all floors
- Searched room is highlighted
- After mouse click displays information about room
  - Schedule of courses inside room
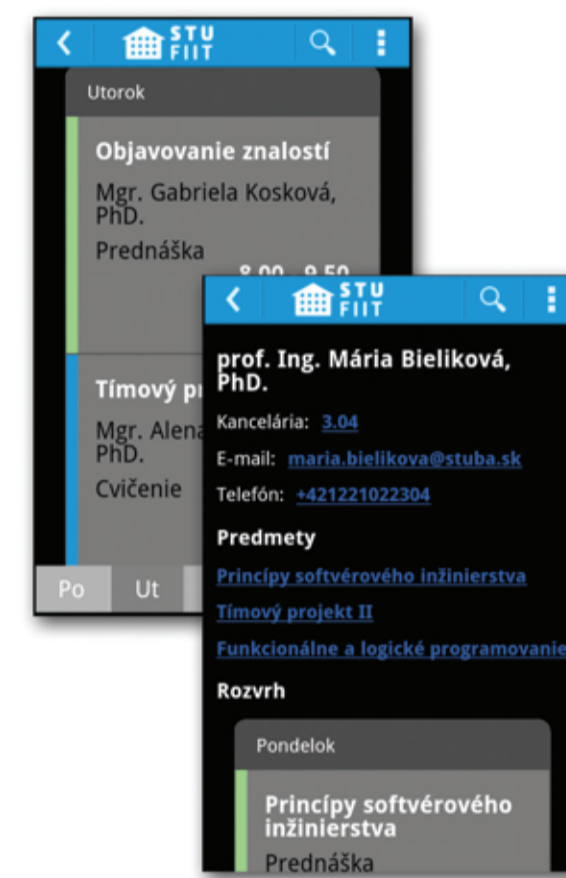 - Teachers inside and their timetables

Canteen menu

- Current menu of canteens in the area
- Canteens can be found in the map of the area
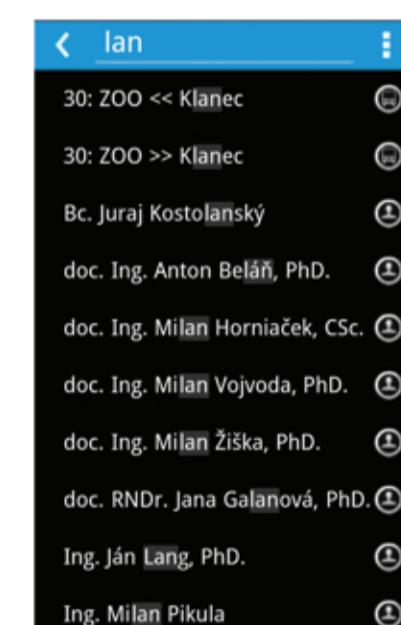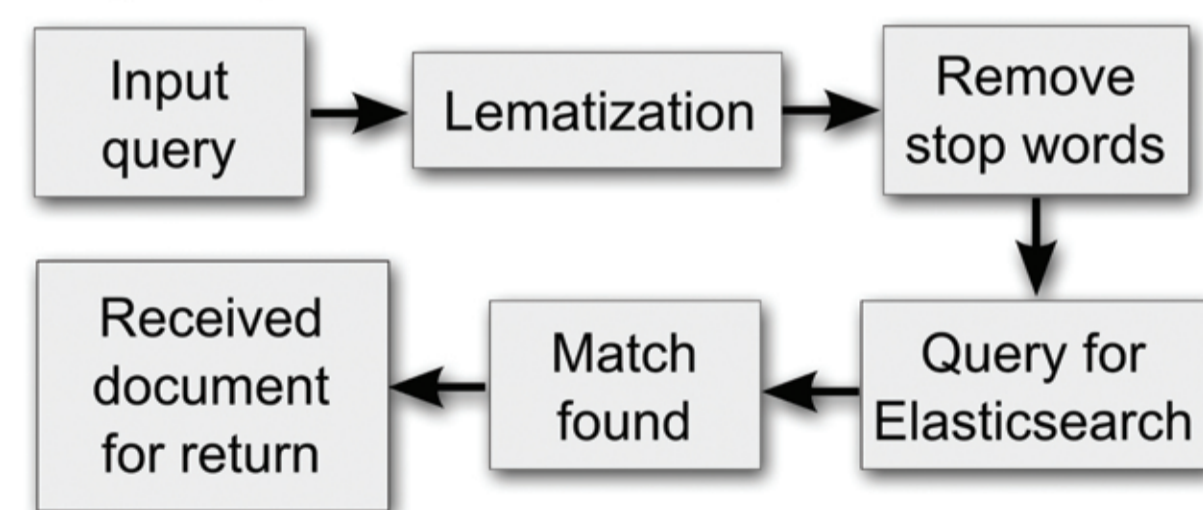
Hladný študent

FIIT.sk

Timetable

- Contains personal timetable of student/teacher
- Divided by days
- When clicked on rooms they are shown and highlighted on the map of the building
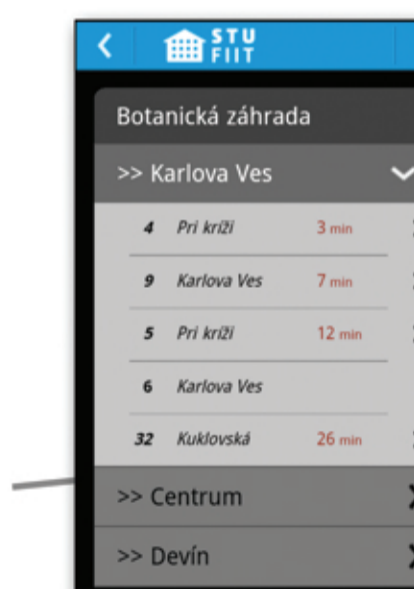
Information

- Links to websites with useful information (for students)
- Information related to organizations housed in the building (opening hours, news in form of RSS)

Intelligent search

- Combines classical index search with search based on similarity of questions and answers

Input query → Lematization → Remove stop words

Received document for return ← Match found ← Query for Elasticsearch

AIS

iTransit

Public transport

- Departure times from the nearest bus stops
- Bus route can be marked as favorite

Map of the area

- Tailored to fulfill users needs
- All canteens
- All bus stops
- Parking lots
- Compass

Portability

- Architecture of our application is made in a such way that porting to other buildings from different domains (replacing information modules and maps) is possible through minimal code interventions
- Current domain of our application is the building of FIIT STU in Bratislava and nearby area
- Other domains in which our application could be useful are for example: hospitals, shopping centers, business centers, offices and so on.

Future Goals

- Additional features
- Finalize Intelligent search feature
- Deployment on other platforms (currently only on Android, Windows Phone deployment in progress)

Google play

Web version

Project Website

iit.src

STU FIIT