TECHNISCHE UNIVERSITÄT DRESDEN

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

Seminar Task
First Presentation

Group№7

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Outline

- Motivation
- Application Scenario
- Use cases
- Technologies
- Challenges
- Work plan

Who is it for?

What for?

- Save your money
- Find the nearest market with discounts fast

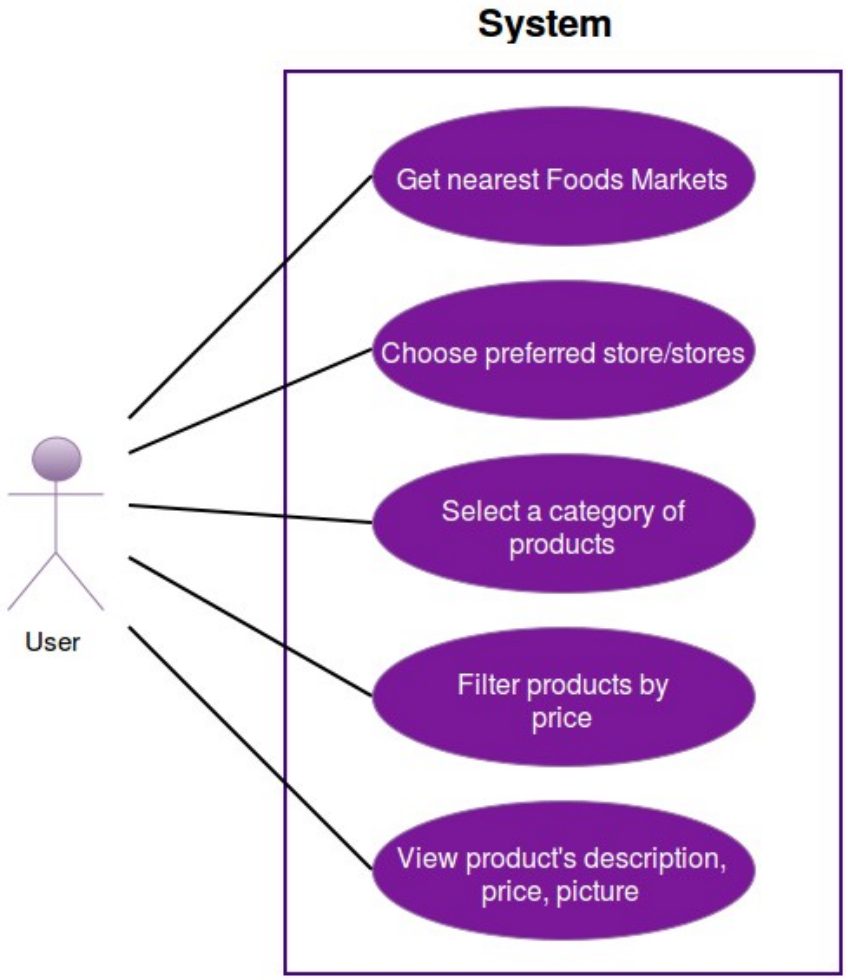
Application scenario

1) Android application for finding all available discounts in convenience stores

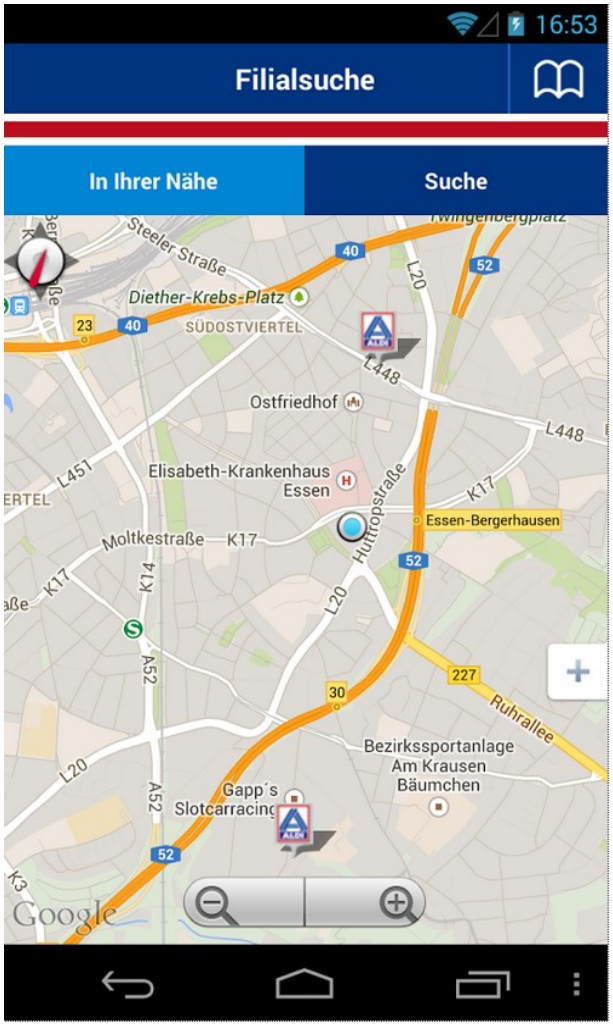
2)Location-based map with opportunity to find and choose nearest markets with discount

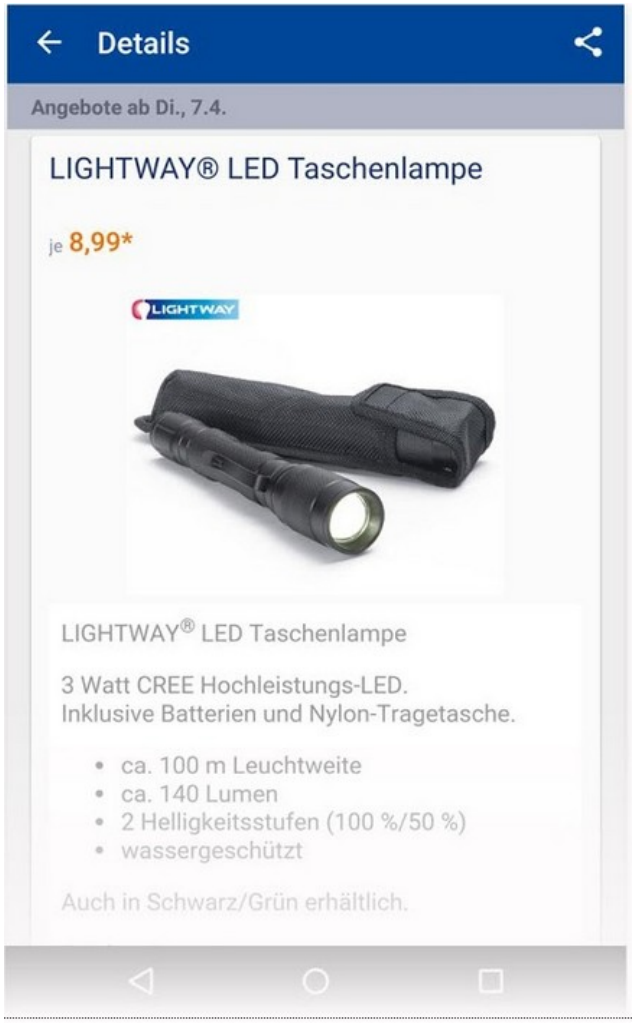
3)Adoptation to client resources and connectivity

Use cases

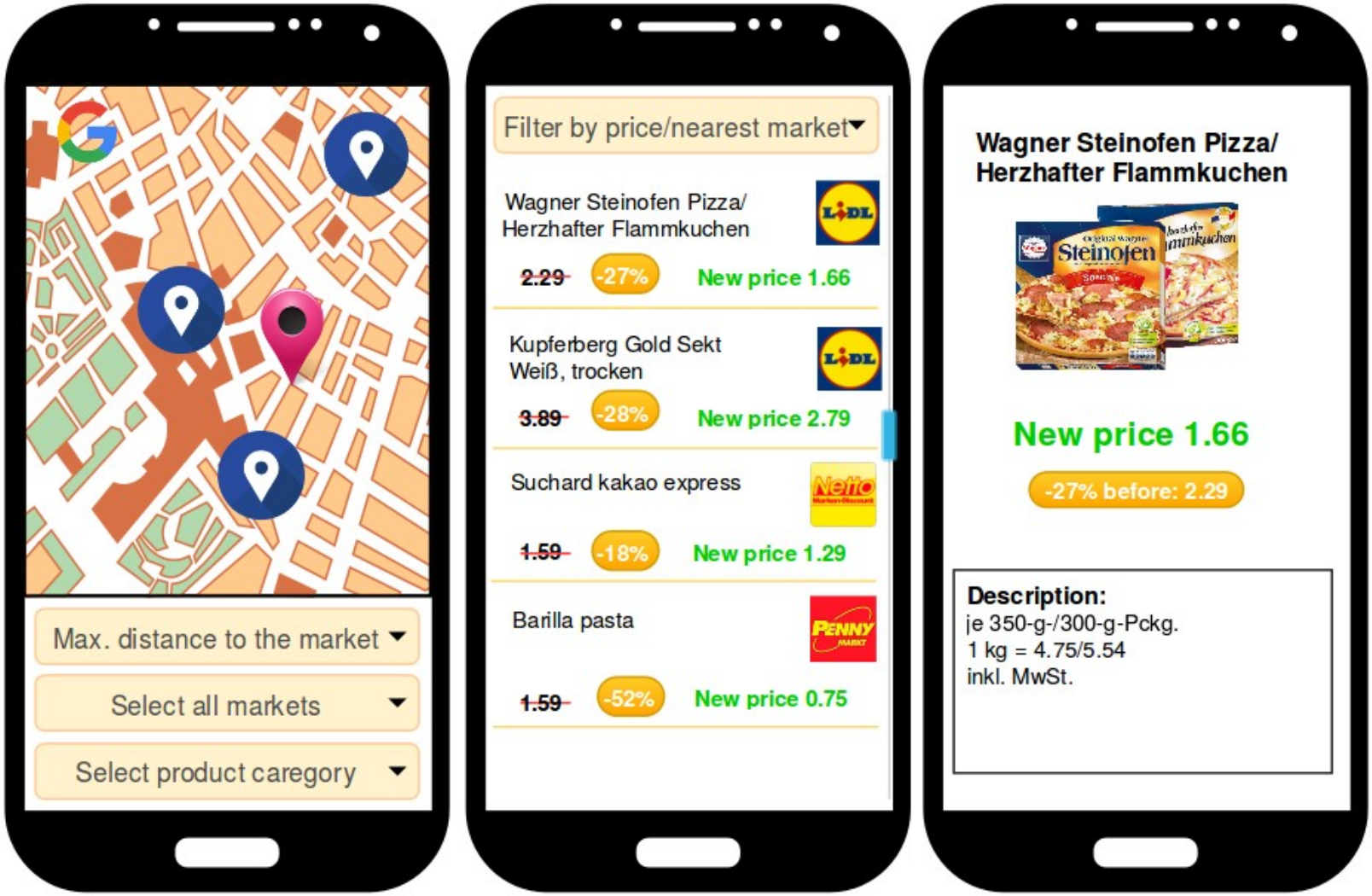

System
Get nearest Foods Markets
Choose preferred store/stores
Select a category of products
Filter products by price
View product's description, price, picture
User

Mockups. Existing projects

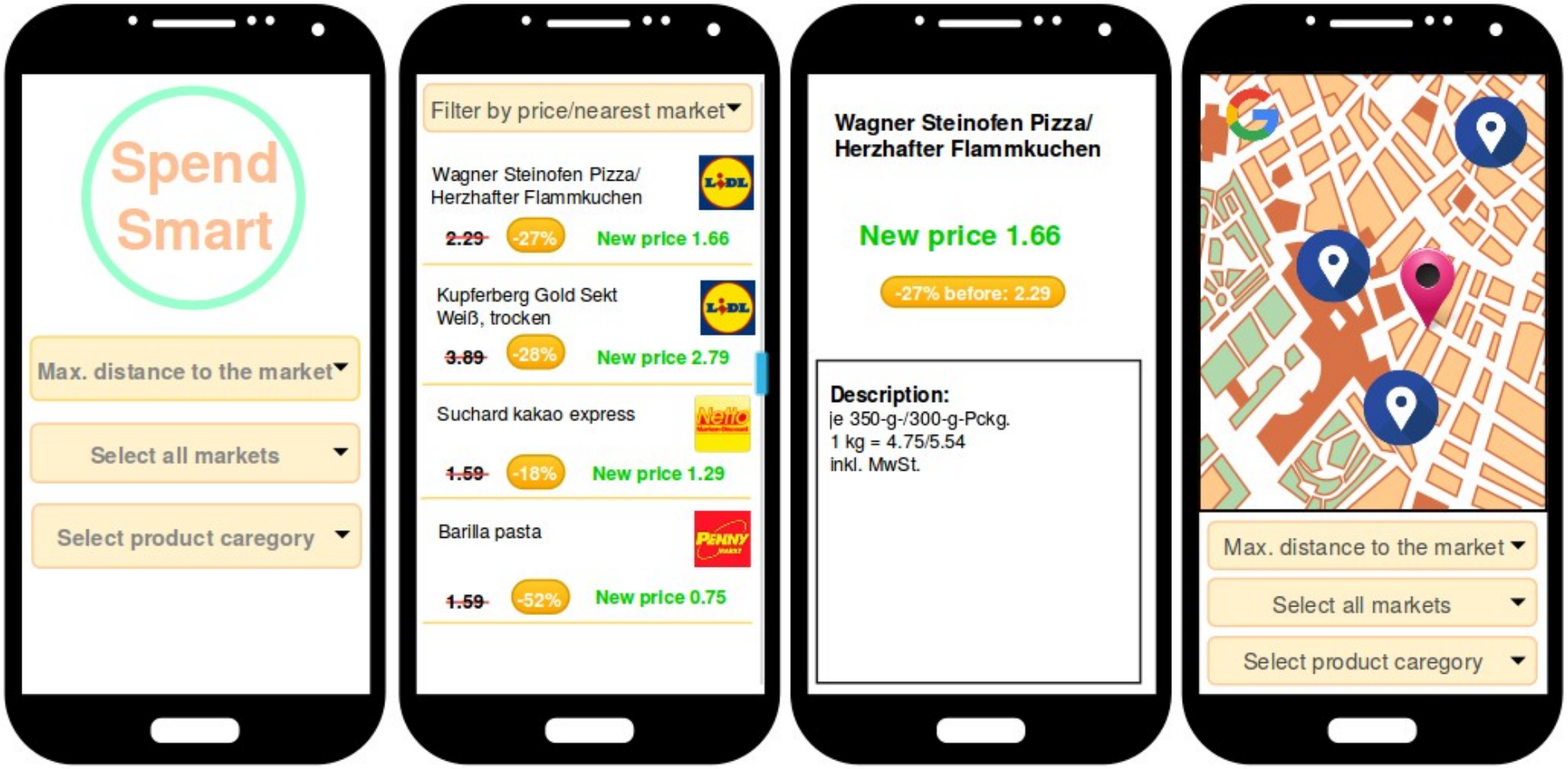




Mockups


Max. distance to the market
Select all markets
Select product caregory
Filter by price/nearest market
Wagner Steinofen Pizza/ Herzhafter Flammkuchen
2.29
-27%
New price 1.66
Kupferberg Gold Sekt Weiß, trocken
3.89
-28%
New price 2.79
Suchard kakao express
1.59
-18%
New price 1.29
Barilla pasta
1.59
-52%
New price 0.75
Wagner Steinofen Pizza/ Herzhafter Flammkuchen
New price 1.66
-27% before: 2.29
Description:
je 350-g-/300-g-Pckg.
1 kg = 4.75/5.54
inkl. MwSt.

Mockups. Limited resources



Development:

- Android SDK
- Java SE
- Android Studio IDE

For location tracking:

- GPS,WiFi,GSM(EDGE,GPRS)...
- Google maps

JSOUP Java library for parsing HTML data:

- https://www.netto-online.de/Filial-Angebote.chtm
- http://www.lidl.de/
- http://www.aldi-nord.de/
- http://www.penny.de/startseite/

Adaptation of Application Data:

- structure transformation – provide access to map-based location presentation as an option
- reduction of data volume – don't download product images

Web APIs are not open for use:

- parse data using JSOUP library

Supporting multiple screens:

- application should look the same on the different devices

Determine location:

- find nearby Foods Markets

Work plan

Android learning, demos writing (weekly)

Formulating the purpose of the application and it's key features

Developing GUI

Parsing data using JSOUP library API

Connect Google maps

Implement adaptation strategies

Testing phase


thank you
danke
謝謝
ngiyabonga
teşekkür ederim
gracias
merci
obrigado
dziękuję
bedankt
hvala
mauruuru
sukriya
kop khun krap
go raibh maith agat
arigatô
dakujem
grazie
terima kasih
tapadh leat
mochchakkeram
спасибо
рахмат
Баярлалаа
dank je
merci
спасибо
ευχαριστώ
감사합니다
ありがとう
তোমাকে ধন্যবাদ
dhanyavadagalu
chnorakaloutioun
gratias ago
gracies
sulpay
xiexie
shukriya
мерси
хвала
дякую
dankie
kiitos
dhanyavad
bayarlalaa
gracie
enkosi
sobodi
dėkuji
mesi
didi madloba
kam sah hamnida
najis tuke
rahmat
tanemirt
rahmet
diolch
misaotra
matondo
paldies
grazzi
mahalo
barka
welalin
tack
spas
kia ora
vinaka
blagodaram
faafetai
lava
nanni
nandri
koszonom
akun
dankon
aciu
djiere dieuf
tau
mamnun
chokrane
murakoze
tenki
obrigada
asante
manana
trugarez
merce
taiku
sagolun