



Application Development for Mobile and Ubiquitous Computing

Final presentation

Sporty App

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Cem Unuvar

- The University Sports Center (abbreviated to USZ) has the task of providing students and employees of the TU Dresden with a variety of sports program.
- **Problems:** many websites ⇒ user has to search each site
- **Solution:** convenient UI for reaching results effectively



News

Sep 14, 2017

SPORTPROGRAMM WINTERSEMESTER 17/18

Bald startet wieder ein neues Semester und damit auch ein neues Sportprogramm.

Wintersemester 17/18 (09.10.2017-04.02.2018)

Sportangebot

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P

A

Aerobic Boxing
Aerobic Mix
Aikido
Akrobatik

Downloads

Hier können Sie häufig benötigte Dokumente

R

Rückerstattung Kostenbeiträge

U

Unfallanzeige Mitarbeiter

Unfallanzeige Student

Sportpartnerbörse

Sie möchten einen Kurs besuchen und finden Dann sind Sie hier richtig.

nach einem Sportpartner suchen:

Sportart:

sie suchen:

Kenntnisse:

Alter: bis:

Datenbank durchsuchen

Sportstätten

Ort

F) [Sporthallen Nöthnitzer Str.](#)

[Sportstättenordnung](#)

[Halle I](#)

Baechvolleyball-Anlage

[Halle II](#)

Nebenräume

Find games/events nearby

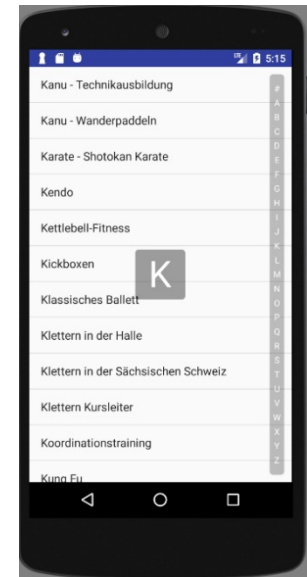
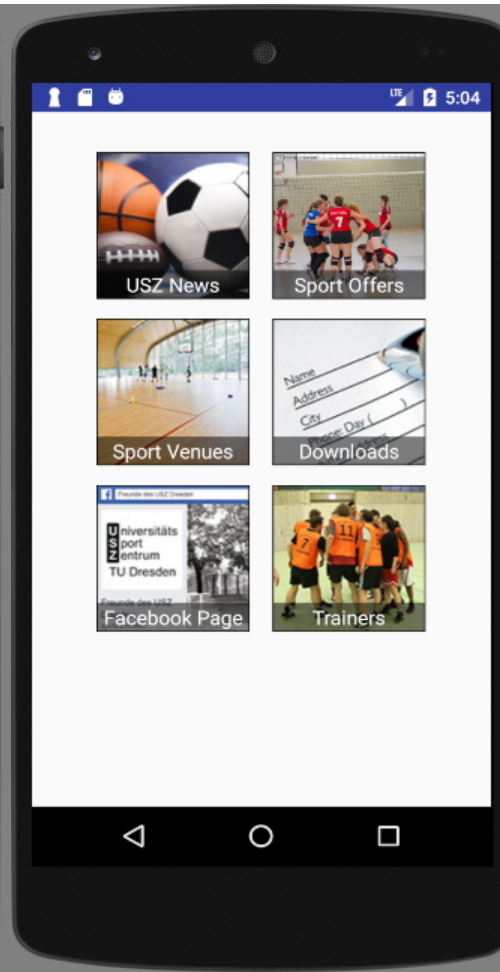
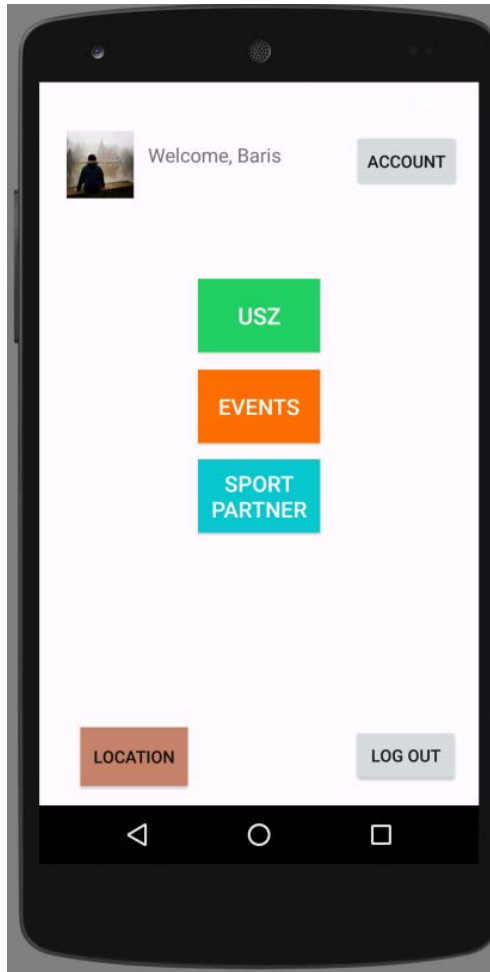
Games 123 games

05 THU NOV 06 FRI NOV 07 SAT NOV 08 SUN NOV

(90 min x 6.00€) Nivel 1,...

FunkyPadel Indoor Arganda, Ar...





- Android Studio
- Firebase – for storage and secure-login
- Google Maps API – to save place of an event
- Jsoup – to scrape content from USZ web pages



Google Maps APIs



Present information properly on Nexus 5 and Pixel XL display.
Minimized effort for user input.

Context:

- Detect screen size and device type
- Detect user location with GPS

Adaptation:

- Adapt layout for Mobile and Tablet - "two pane" pattern for large screens (7" tablets and above)
- Cache search queries

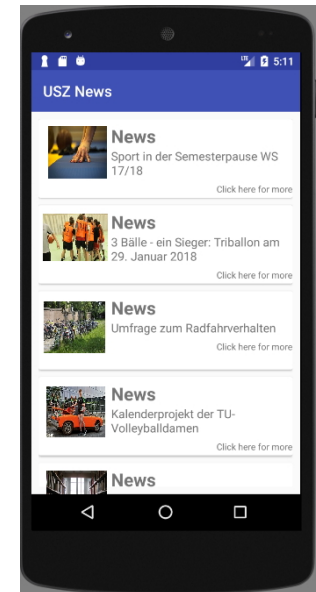
Network awareness

Context:

- Detect screen size and device type

Adaptation:

- Context: network condition (technical context)
- How to capture: `android.net.ConnectivityManager`
- How to use:
- Download images if connection is fast enough (`TYPE_WIFI II`, `NETWORK_TYPE_LTE II ...`)
- Otherwise only text



Provide some functionality when offline:

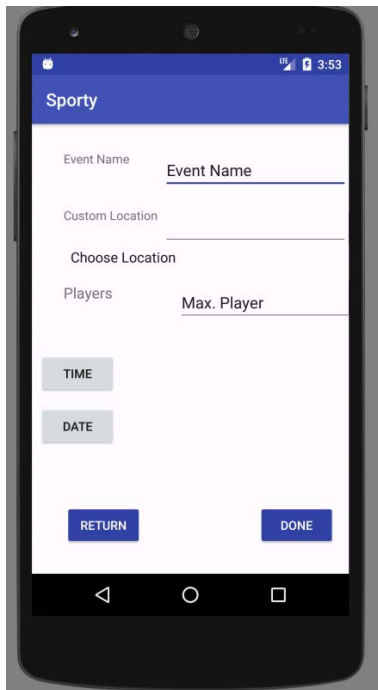
- Store the bookmarkedEvents and myEvents
- Access storage on device and calendar.
- Modifications without internet access.
- Offline-notifications

Context:

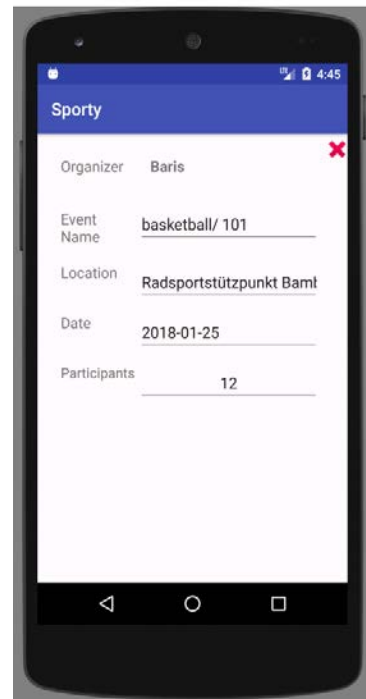
- Detect if your App is online or offline. (offline-first approach)

Adaptation:

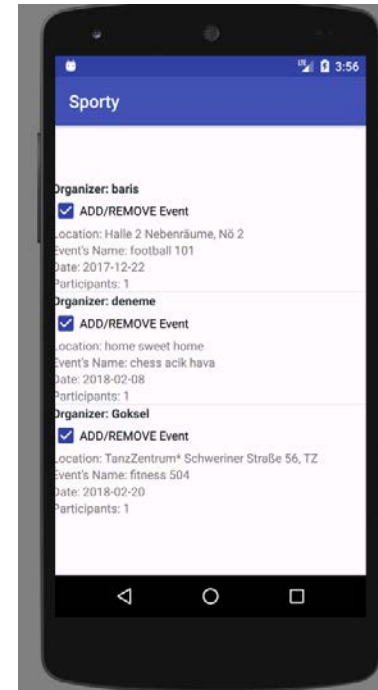
- Caching of Data
- Use cached data if application is offline, Enqueue events or user data to be uploaded later on



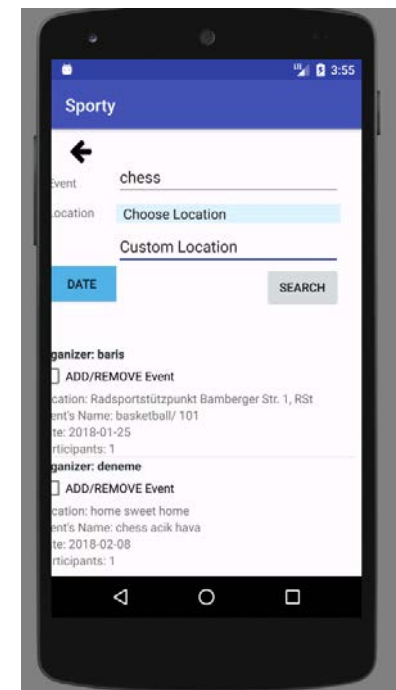
Create Event -
Offline



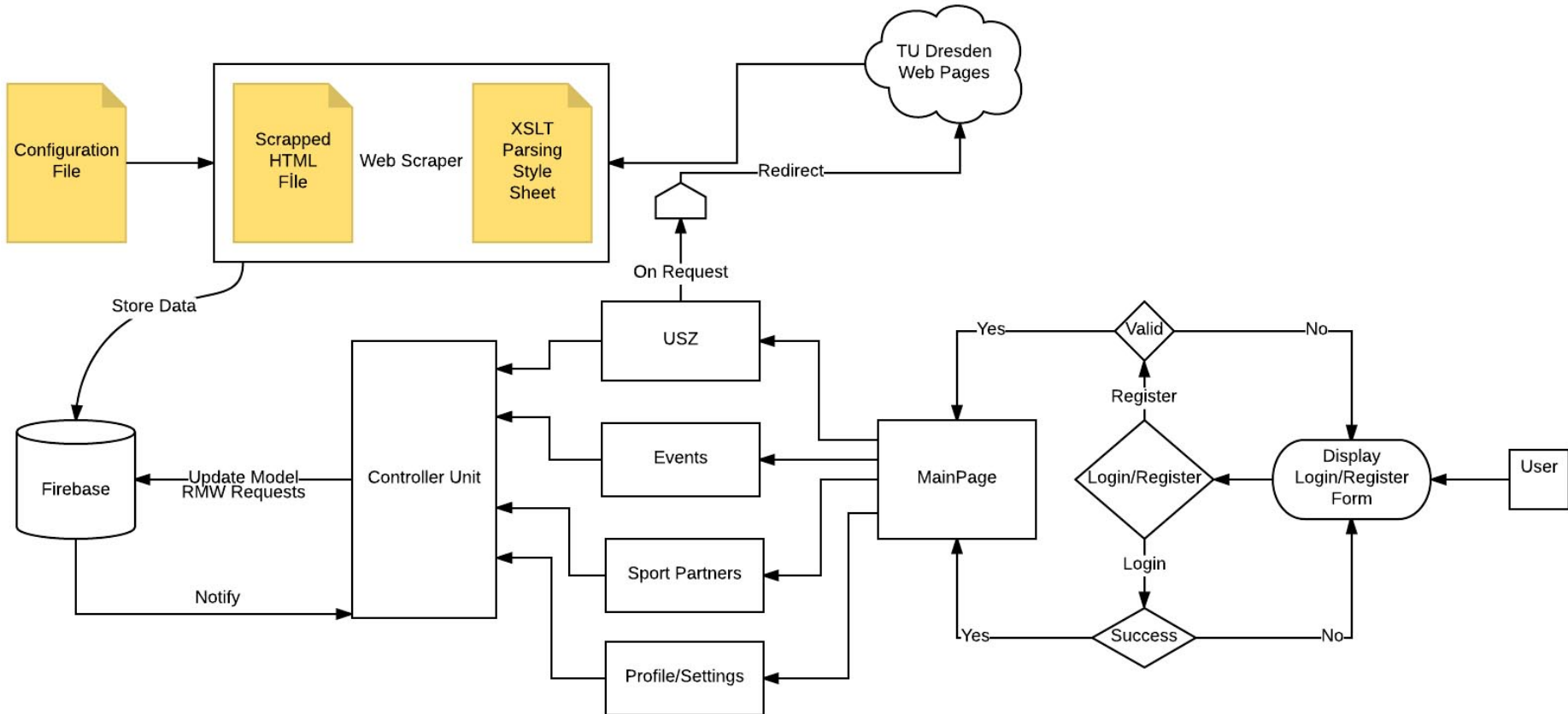
Modify Event -
Offline



Marked Events



Find Events



- Sport Course Registration Notification
 - Before the registration opens at a certain day/time, user will be notified.
- Sharing Events on Social Media
- Uniform Design

Sporty

- Follow USZ News and Sport Events
- Find sport courses
- data scraped from USZ webpage

