



Application Development for Mobile and Ubiquitous Computing

# Seminar Task - First Presentation

Group: 4

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Dresden, 30.10.2015

- FilmFriends
  - film discovery application
  - browse through recent and popular films
  - add interesting ones to your watchlist
  - build your own network of friends
  - receive recommendations and notifications about popular films in your network
  - organize movie nights with your friends





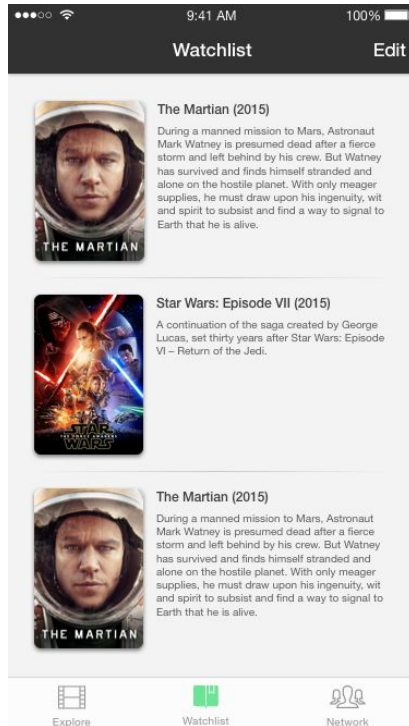
Explore screen



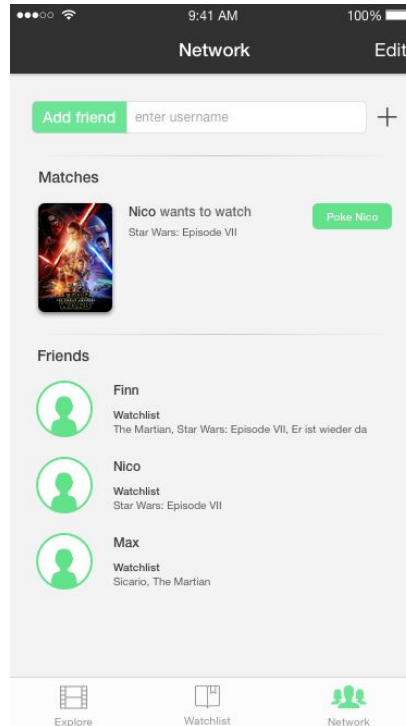
Add to watchlist



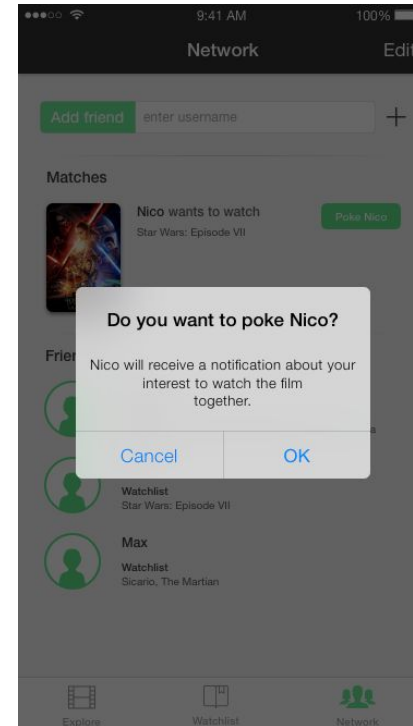
Detail film view



Watchlist



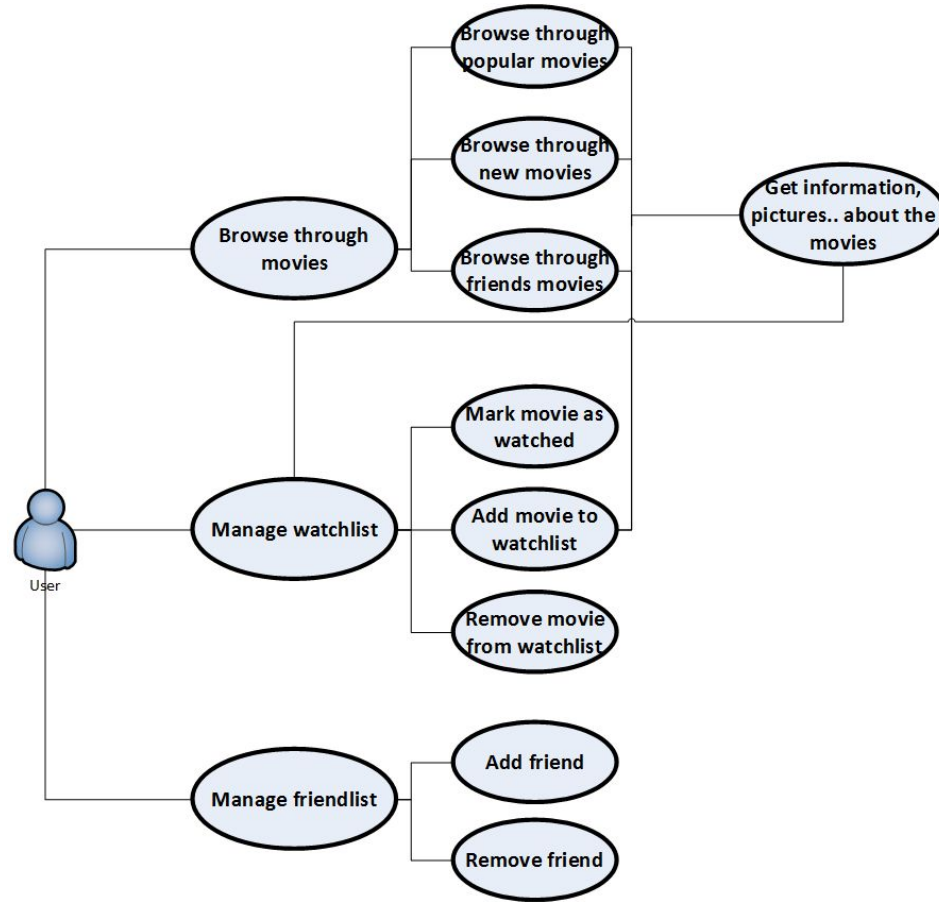
Network

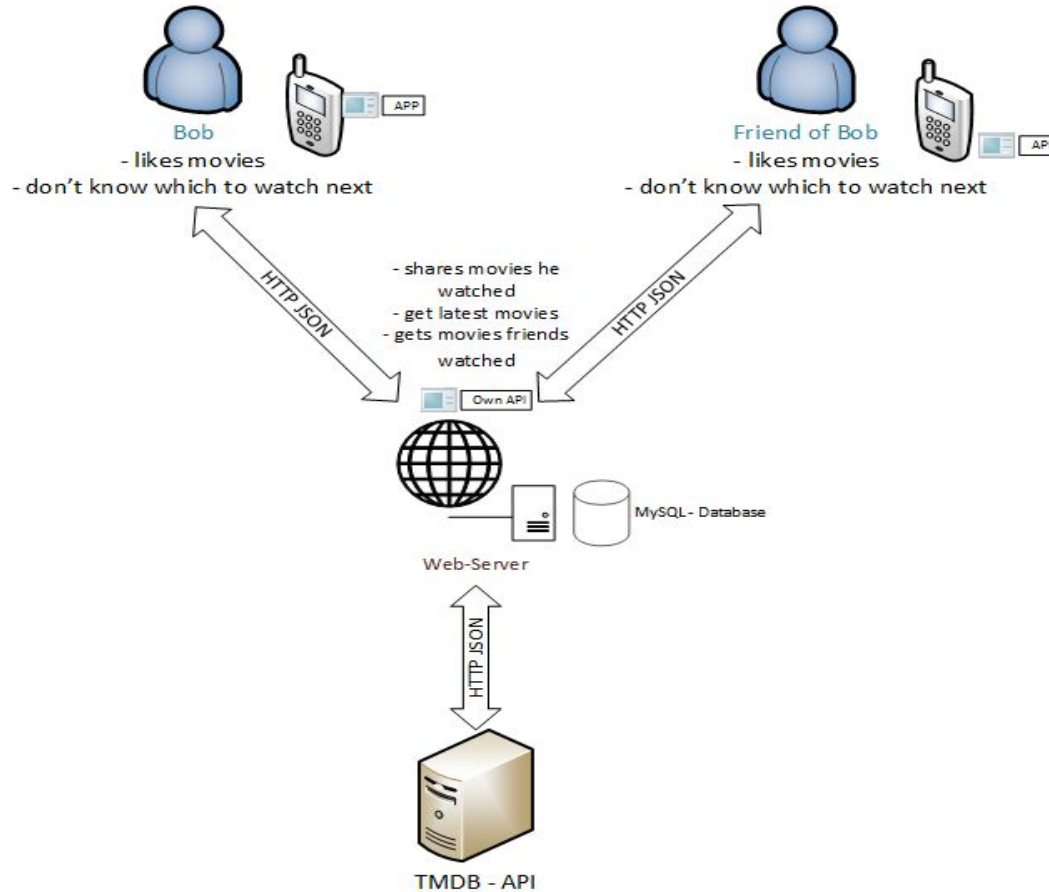


Network - Poking

- Client
  - React Native (iOS, Android)
  - JavaScript
- Server
  - PHP
  - MySQL
  - TMDb API

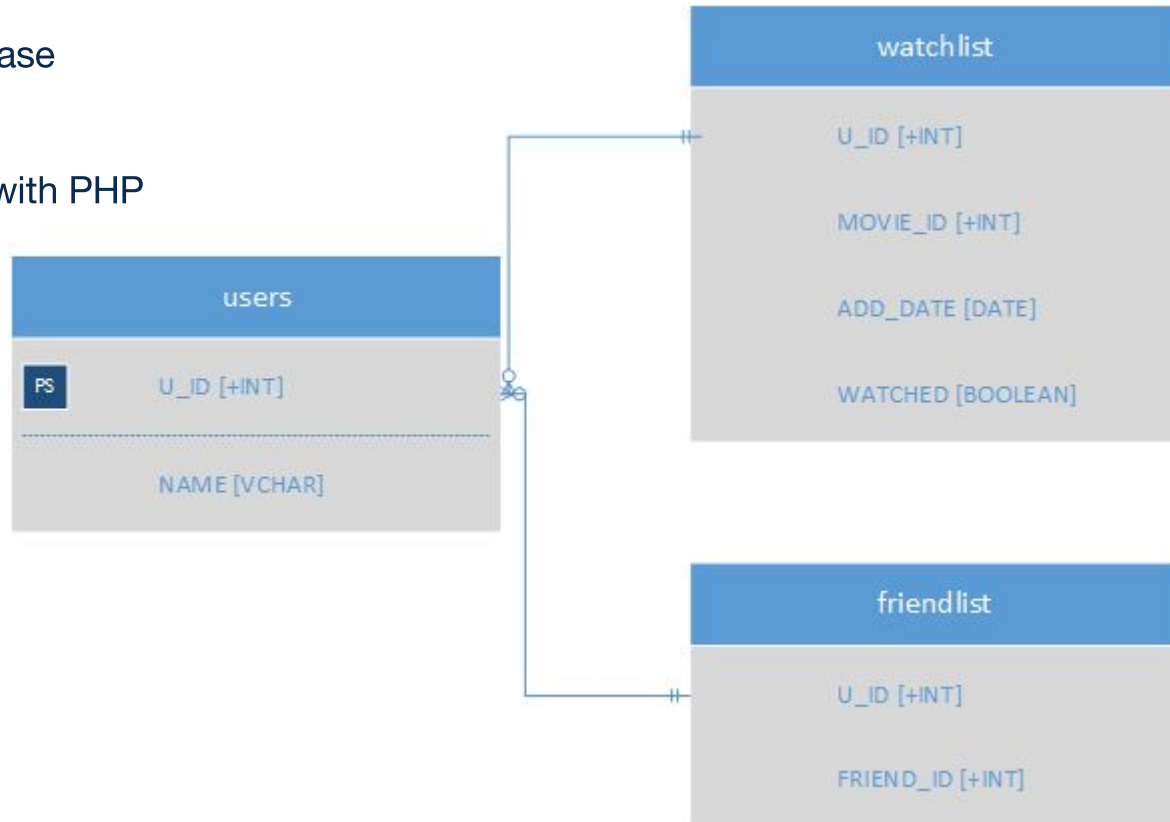
- Connectivity Challenge (Reduce traffic)
  - Transfer appropriate image files based on the client's connection
    - Bad connectivity
    - Offline Challenge
  - Allow the user to set a preferred bandwidth setting in the application
- Form Factor Challenge
  - Support multiple screen sizes and resolutions
- Offline Challenge (Local cache)
  - Store made changes in local cache in case of no connectivity







- MySQL Database
  - 3 tables
  - Access with PHP



REST API	Methode	<b>/user/</b>	<b>/watchlist/</b>	<b>/latest/</b>	<b>/popular</b>	<b>/friendmovie s/</b>
	<b>GET</b>	{id} or {name} → get user- data	{id} → get users watchlist	get latest movies	get popular movies	get movies friends have watched
	<b>POST</b>	{name} → add user	{id},{movie id} → add movie to watchlist	-	-	-
	<b>DELETE</b>	{name} or {id} → delete user	{id},{movie id} → remove movie from watchlist	-	-	-
	<b>PUT</b>	-	{id,movie id} → mark movie as watched	-	-	-

- 23.10.2015
  - Application design for the main screens
  - Description of the server API
- 30.10.2015: First presentation
- 20.11.2015: Server & iOS prototype
- 04.12.2015: iOS prototype with API connection
- 18.12.2015: Second presentation
- 08.01.2016: Testing
- 15.01.2016: Bug fixing
- 29.01.2016: Final presentation