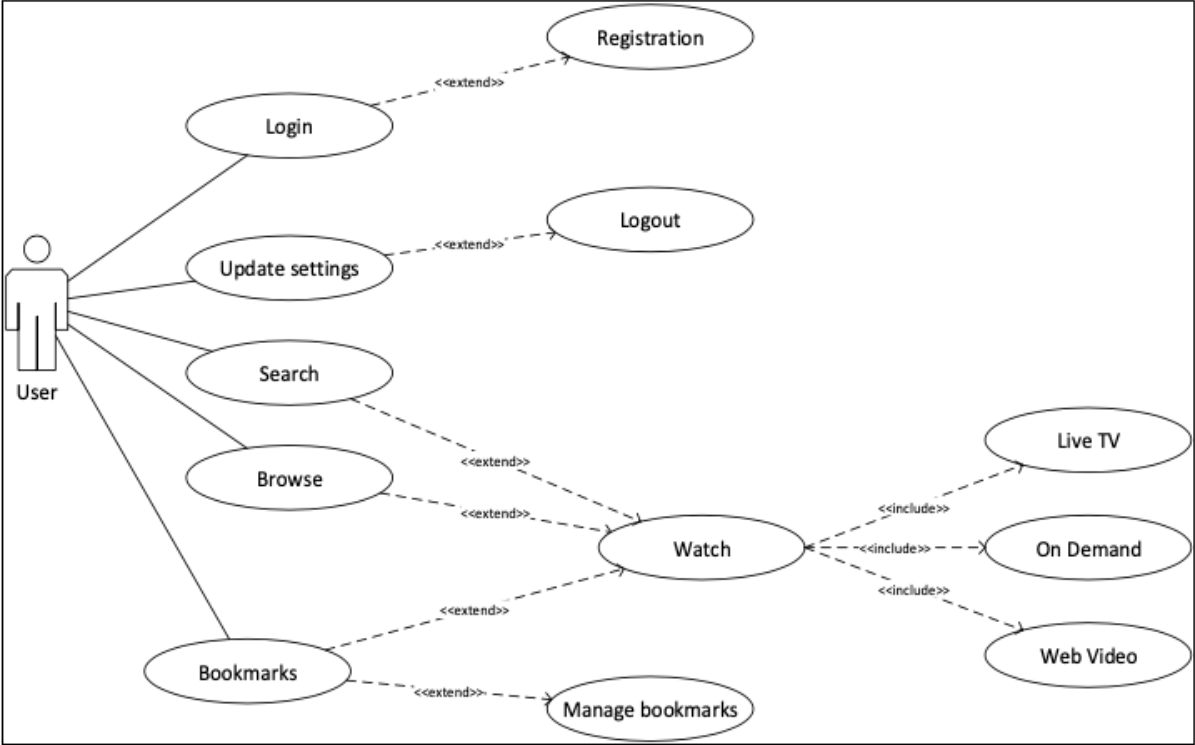


There is only one role in the project: user. It is not mandatory for user to login to use the application, he can browse it anonymously. But to have the ability to watch content, he's got to have an account and subscription. There is a list of main use cases for user: user registration, login, logout; update user settings; search an item; browse through recommendation and selections; watch Live TV, On-Demand, Web-video; manage bookmarks.

The UML diagram of use cases is illustrated on picture 1.



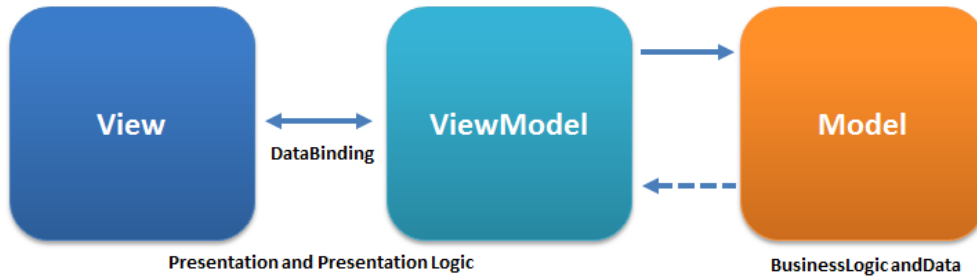
Picture 1 – UML diagram of project functionality

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DEVELOPMENT OF THE VIDEO-SERVICE APPLICATION FOR TELCOM COMPANY

The main architecture concept of the project is MVVM implementing Reactive paradigm. Model–View–ViewModel (MVVM) is a software architectural pattern (picture 1).

In the project, UIKit items stand for View, VM classes stand for ViewModel and all CoreData stack, networking and business logic stands for Model.



Picture 1 – MVVM architectural pattern

Following the pattern our ViewControllers store its associated View-Model objects, and send desired events to that, and binds to ViewModel updates via Reactive Programming. And in very similar way, ViewModel stores its associated Model objects, send needed updates to that, and binds to its updates. So that, code becomes more declarative, not imperative. We declare what data should be display in what UI, and it make needed work under the hood to always present actual data on the screen of smartphone.

The application communicates with server all the time. This communication happens in JSON format. That format enables us to send and receive data in readable and efficient way. All structures of JSON data are duplicated in persistence layer of the project. The main framework to work with persistence is CoreData. Video streaming goes via HTTP protocol with standard AVFoundation framework.

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USE CASES OF THE SERVICE FOR THE ORGANIZATION OF DESIGN ACTIVITY OF THE COMPANY'S EMPLOYEES

It is very important to notify an enterprise employee in a timely manner about planned project and corporate events and changes in various information of project activities, to form an employee's resume on his skills and work experience or customer requirements. Therefore, a software package was developed for Android, iOS and Windows Phone platforms that performs these functions.

To notify employees about events, a functional was developed that allows you to create events with detailed information about the time, place, participants and any arbitrary additional information. Events are divided into two types: workers and corporate. When creating an event, all partici-