

## VOICE TV ASSISTANT APPLICATION

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„multi-tasking“ –

„streaming“ –

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**Abstract:** The rapid development of high information technology causes a qualitative change in the principles of production and distribution of products and services of all types. Due to the dynamics of the processes and the daily challenges in the world we live in, our way of thinking is changing and intuitively as consumers, we are beginning to seek relief in meeting our needs. The global media business has clearly shown that traditional TV viewing is declining, especially among the Millennium generation. Video consumption is rising, fueled by the overall increase in online video availability, specifically mobile services and internet search.

Users often watch content in combination with other forms of entertainment - so-called "multi-tasking" - viewing and using several programs at the same time. Therefore, global television corporations are investing heavily in streaming services and original content - such online products and brands that provide digital content - stories and experiences - adequately to the audience's expectations. The challenges for the television market in Bulgaria follow similar global trends.

The challenges for the television market in Bulgaria follow similar global trends. New media companies, expected to establish themselves locally, should develop services that connect users to content across multiple screens - on the go, at home, through a television program or various applications.

Samsung Technomic Index 2018, 18  
4 8 1  
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Hac o a  
„Linda”.  
„Linda“

“Linda”

“Linda”  
“Linda”

“Linda”

„Linda”

„speech recognition“

smart TV

“ ”

“ ”

„Linda”

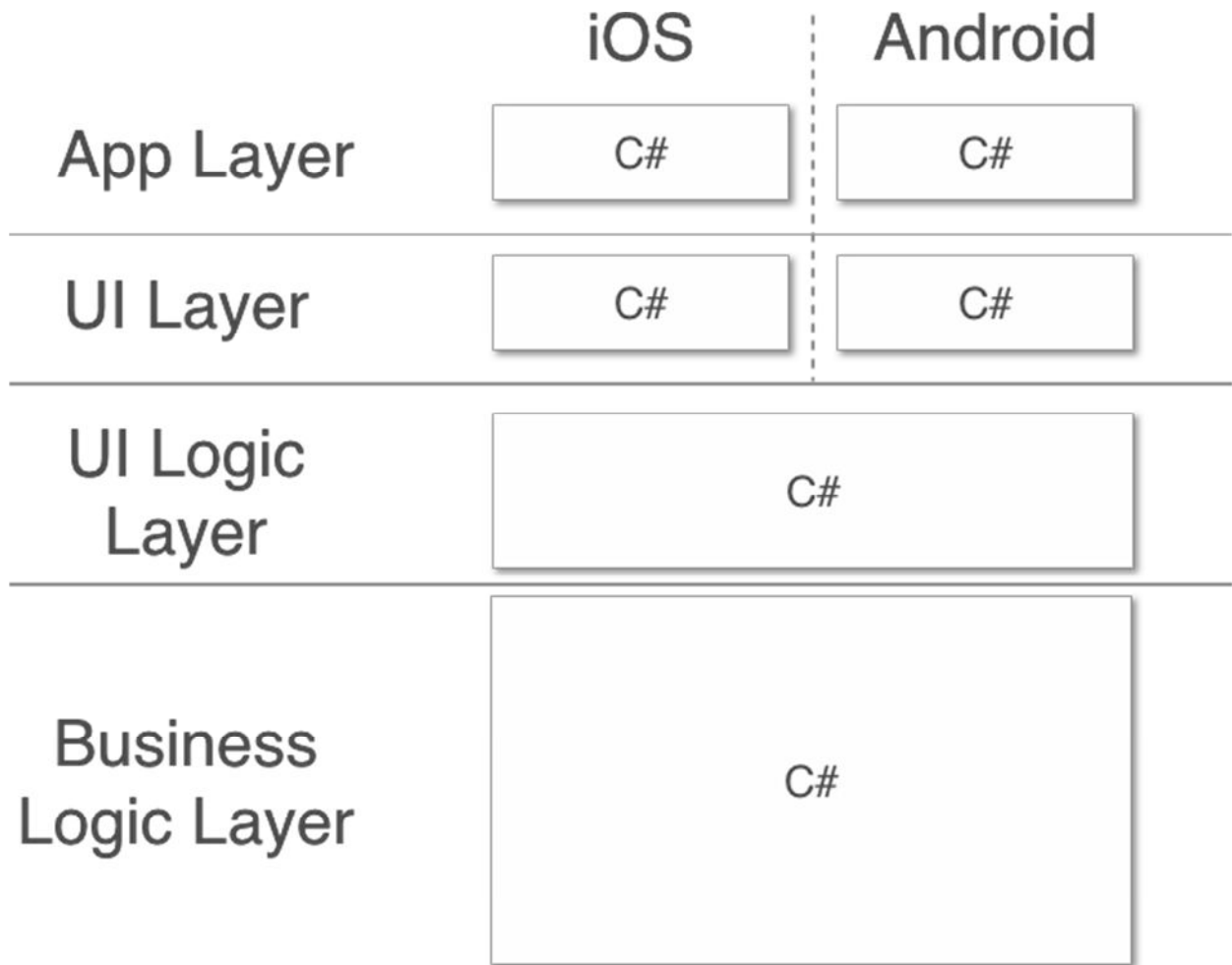
„Linda”,

„Linda Tv App“



Xamarin

Xamarin.



❖ App

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Android.

❖ UI

iOS Android.

iOS

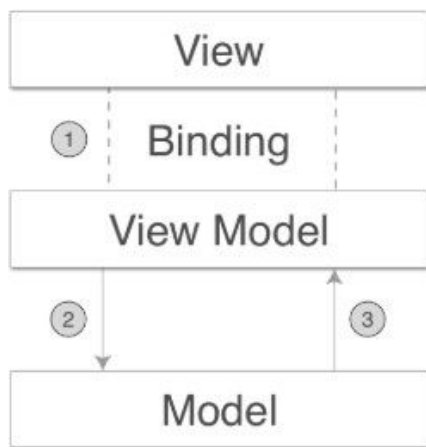
❖ UI Logic е

❖

Xamarin.

viewmodel(MVVM)

Xamarin,



- 1 Байдинга(binding) служи за синхронизация на данните между вюто(view) и вю-модела(view-model).
- 2 Вю-модела(view-model) обновява модела(model) с данните, които е получил от горното ниво.
- 3 Базови промени в модела(model) са връщани към вю-модела(view-model), който след това уведомява байдинга(binding), че са настъпили промени и е необходимо да се синхронизират с вюто(View).

MVVM

MVVM

( )

(model),

(view).

(view),

MVVM

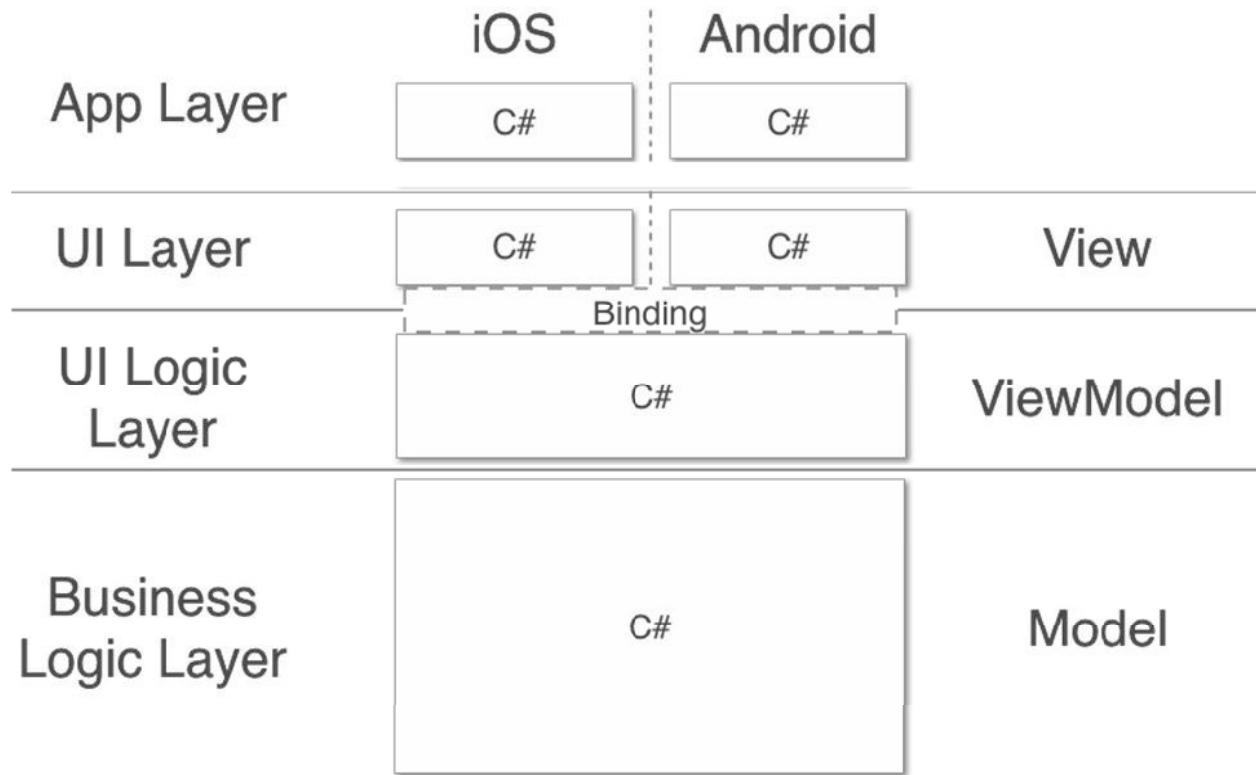
( )

(view-model)

(model)

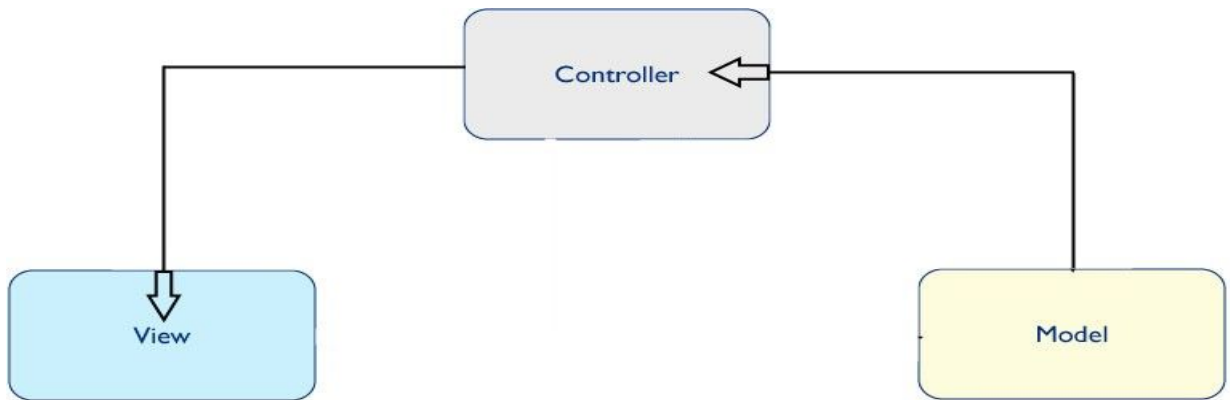
(view-model)

Xamarin.



- ❖ UI (view)
- ❖ UI (binding), UI (view-model)
- ❖ UI (UI logic)
- ❖ (Business logic) (model).

MVC model view controller.



„Linda“

“Linda”

Metrological. Metrological

. Metrological

OTT(Over-the-top)

. Metrological

- Liberty Global.

Metrological

(smart

TVs).

40

Metrological App Library.

Metrological

- MAF



(Metrological Application Framework),

-

Bitbucket. Bitbucket

Trello,

The screenshot shows the Bitbucket web interface for a repository named "Linda TV App". On the left is a navigation sidebar with options like Source, Commits, Reviews, Pull requests, Pipelines, Downloads, Trello, and Settings. The main content area includes a "Clone" button, a "Take the next steps" message with a code snippet for cloning the repository, and a table of repository files. Below the table is a "README.md" section with the repository name and a personal TV resolution.

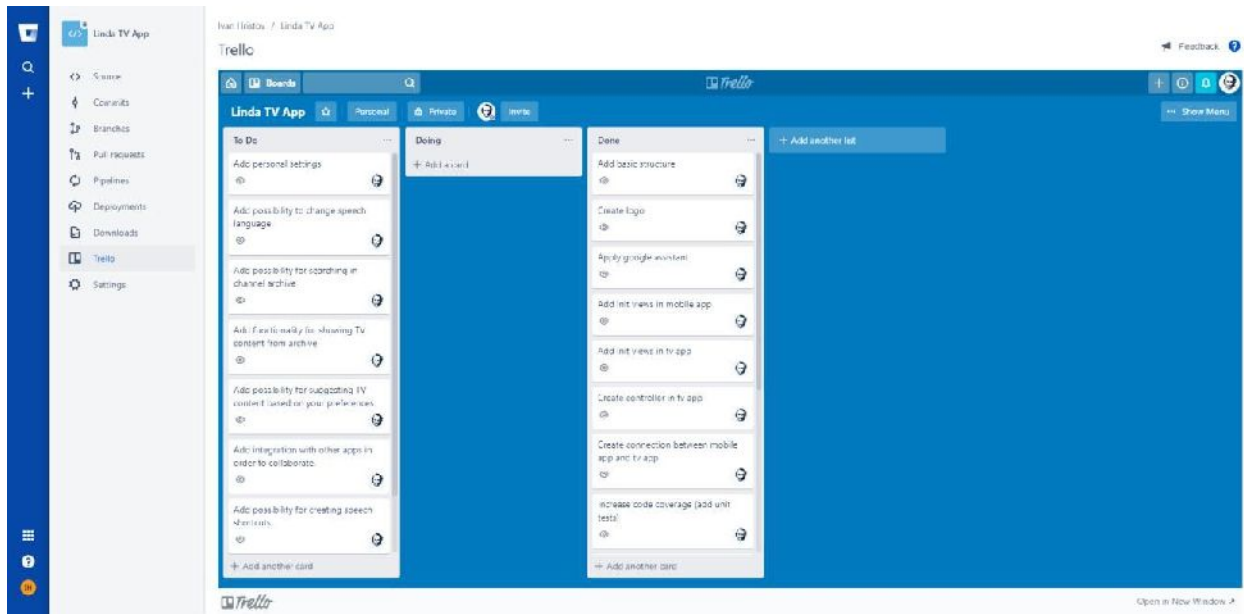
Name	Size	Last commit	Message
./			
./lib		24 minutes ago	Adds in1 version
./font		34 minutes ago	Adds in1 version
./img		34 minutes ago	Adds in1 version
./asset		34 minutes ago	Adds in1 version
./location		34 minutes ago	Adds in1 version
./README.md	44 B	1 minute ago	Updates readme file
./metadata.json	561 B	34 minutes ago	Adds in1 version



speech to text ,

Google Assistant

Xamarin.

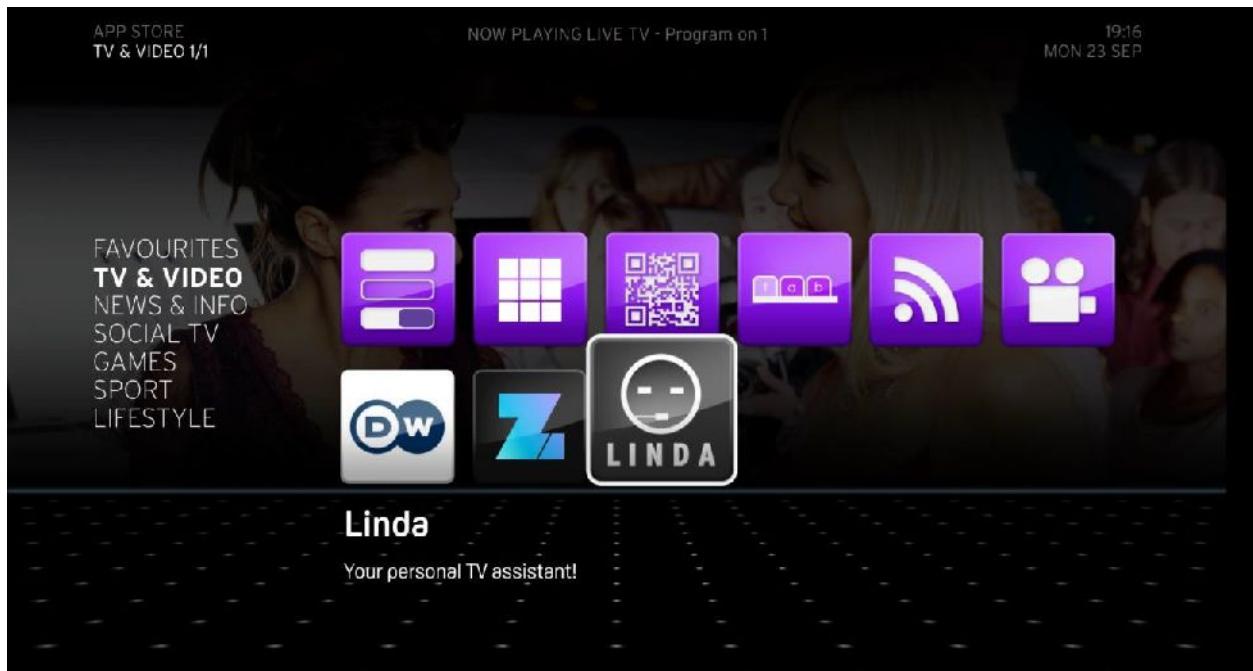


„Linda“.

„Linda“


(unit and integration testing),

Git Bitbucket  
Trello  
“Linda”,  
“Google App Store” Android  
“APP Store” iOS  
“Linda”



QR ,

**LINDA**  
YOUR PERSONAL TV ASSISTANT



SCAN THE QR CODE ABOVE  
TO GET STARTED

“Linda” –

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„Linda”,

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  2. Michael Burton / Don Felker, 2015, Android For Dummies, AlexSoft
  3. Benjamin Michéle, 2016, Smart TV Security, Springer International Publishing AG
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  7. Samsung Technomic Index Research - [http://en.ictmedia.bg/24343\\_prekarvame\\_s\\_dzhadzhite\\_si\\_nad\\_105\\_chasa\\_n\\_a\\_den\\_tvardi\\_samsung](http://en.ictmedia.bg/24343_prekarvame_s_dzhadzhite_si_nad_105_chasa_n_a_den_tvardi_samsung)
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- [https://docs.google.com/forms/d/e/1FAIpQLSdI4fBtBFYG\\_WSu\\_4nIjcmcxYGF\\_W7e38U3Eye1HaeT7eRBDA/viewform?fbclid=IwAR2APtFPjwAbJU1C31eklm1D8ijl4cYRCM3Dghw9u1yTZwAH\\_8zRbcSyKY](https://docs.google.com/forms/d/e/1FAIpQLSdI4fBtBFYG_WSu_4nIjcmcxYGF_W7e38U3Eye1HaeT7eRBDA/viewform?fbclid=IwAR2APtFPjwAbJU1C31eklm1D8ijl4cYRCM3Dghw9u1yTZwAH_8zRbcSyKY)