

МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ
РОССИЙСКОЙ ФЕДЕРАЦИИ

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Отчет по лабораторной работе № 1

Дисциплина: «Enterprise Systems Development (Методы проектирования и
поддержки требований к программному обеспечению)»

Тип предприятия: **Meeting App «TimeToMeet»**

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1 Assignment #1. IDEF0 diagram Tasks

Tasks

1. Create valid IDEF0 diagrams for the general company processes up to 3d level detailing. At 3d decomposition level should be at least one process with at least two actors collaboration.

2. Add IDEF0 diagrams images to doc report.

For IDEF0 diagram plotting you can use:

- <https://app.diagrams.net/> (ex. draw.io)
- Draw.io desktop (<https://github.com/jgraph/drawio-desktop/releases>) for your Linux, Mac or Windows
- Ramus Educational (<https://github.com/Vitaliy-Yakovchuk/ramus>). Looks like dead and does not work with modern JRE.
- Microsoft Visio (non-Free).
- Another available software tools (Libre Office Impress, draw.io, etc.).

Notice

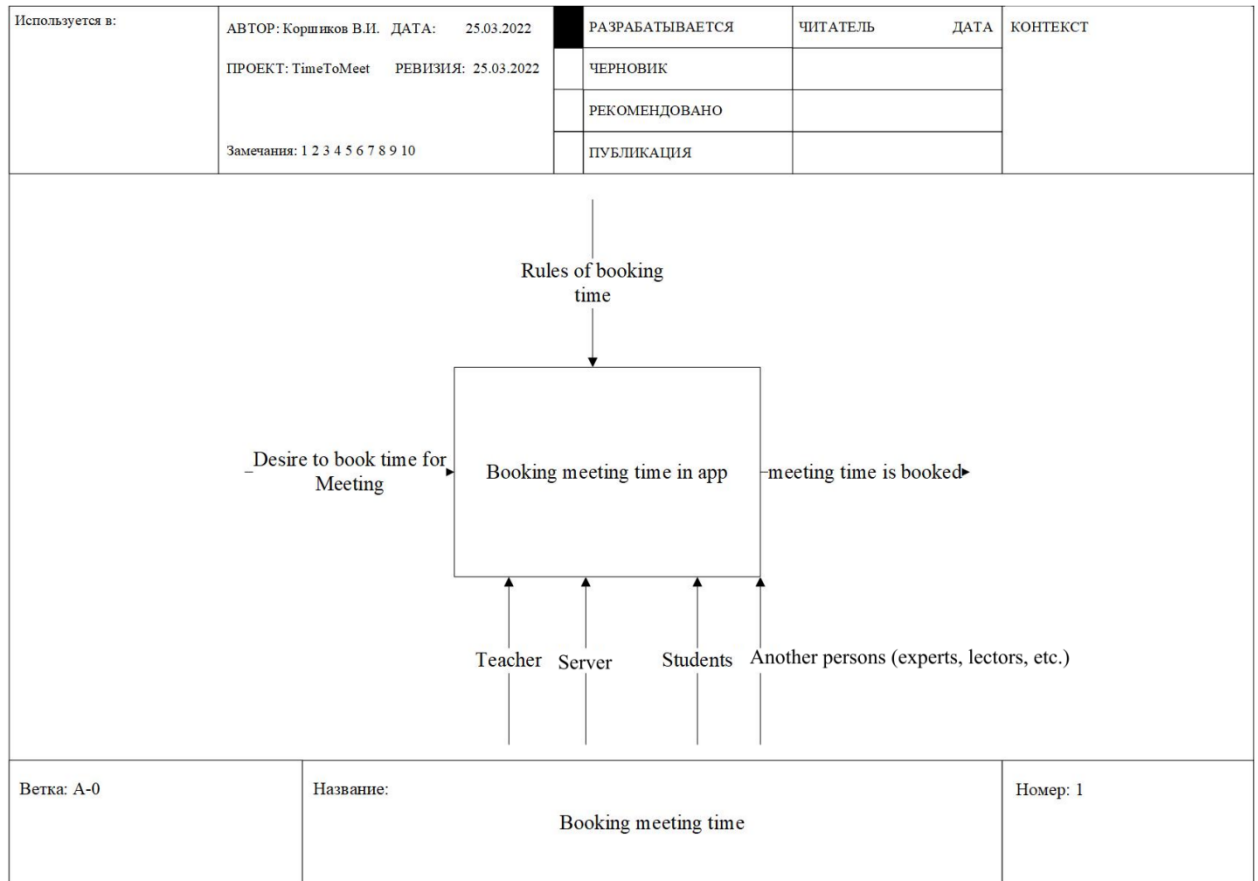
You have to prepare at least 4 diagrams: A-0, A0, 2 or more decomposed A0 blocks.

Model level	
0	Top level A-0, one block. Arrows show object connection with environment.
1	A0. First level, contain top processes.
2	Second level, top processes decompositions. You have to show at least 2 decomposed A0 blocks.

References

1. IDEF0 <https://en.wikipedia.org/wiki/IDEF0>
2. FIPS PUB 183, Integration Definition for Function Modeling (IDEF0), National Institute for Standards and Technology, December 1993. <https://nvlpubs.nist.gov/nistpubs/Legacy/FIPS/fipspub183.pdf>
3. ISO/IEC/IEEE 31320-1:2012(en) Information technology — Modeling Languages — Part 1: Syntax and Semantics for IDEF0 <https://www.iso.org/obp/ui/#iso:std:iso-iec-ieee:31320:-1:ed-1:v1:en>

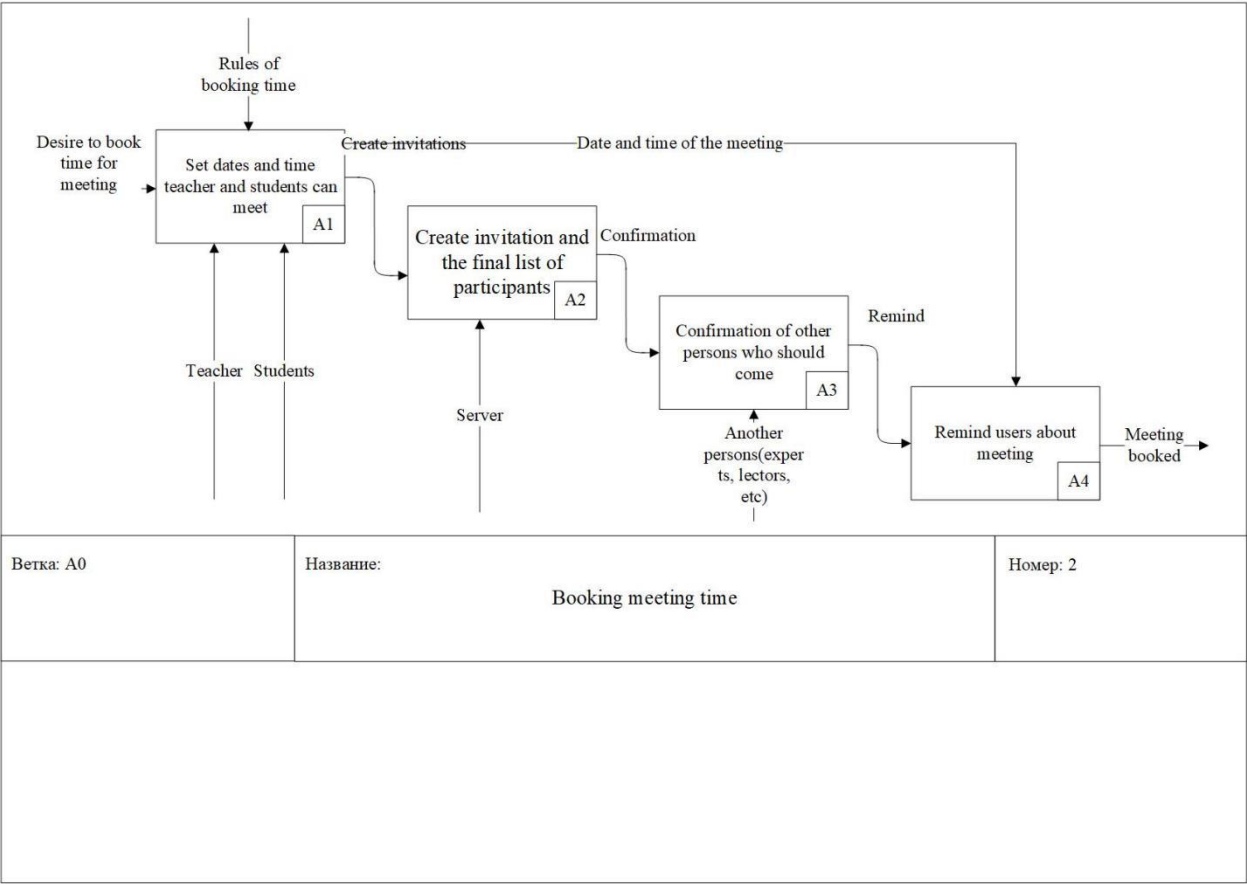
Assignment #1. IDEF0 diagram TimeToMeet IDEF0



Purpose: Booking meetings and improving time management

Viewpoint: Technical Supporting Team of the University

Используется в:	АВТОР: Коршиков В.И. ДАТА: 25.03.2022	РАЗРАБАТЫВАЕТСЯ	ЧИТАТЕЛЬ	ДАТА	КОНТЕКСТ
	ПРОЕКТ: TimeToMeet РЕВИЗИЯ: 25.03.2022	ЧЕРНОВИК			
		РЕКОМЕНДОВАНО			
	Замечания: 1 2 3 4 5 6 7 8 9 10	ПУБЛИКАЦИЯ			



Purpose: Booking meetings and improving time management

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Rules of booking time

Desire to book time for meeting

Choose date, time and place for meeting

A11

Time and place chosen

Choose some questions

A12

Questions is chosen

Choose some other persons they want to invite

A13

Create invitations

Teacher

Students

```
graph TD
    Rules[Rules of booking time] --> A11[Choose date, time and place for meeting  
A11]
    Desire[Desire to book time for meeting] --> A11
    A11 -- "Time and place chosen" --> A12[Choose some questions  
A12]
    Teacher[Teacher] --> A12
    Students[Students] --> A12
    A12 -- "Questions is chosen" --> A13[Choose some other persons they want to invite  
A13]
    Students --> A13
    A13 --> Create[Create invitations]
```

Ветка: A1	Название: Set dates and time teacher and students can meet	Номер: 3
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Purpose: Selecting date, time and place of meeting

Viewpoint: System administrator

Используется в:	АВТОР: Коршиков В.И. ДАТА: 25.03.2022	РАЗРАБАТЫВАЕТСЯ	ЧИТАТЕЛЬ	ДАТА	КОНТЕКСТ
	ПРОЕКТ: TimeToMeet РЕВИЗИЯ: 25.03.2022	ЧЕРНОВИК			
		РЕКОМЕНДОВАНО			
	Замечания: 1 2 3 4 5 6 7 8 9 10	ПУБЛИКАЦИЯ			

```
sequenceDiagram
    participant Rules as Rules of organizing lists
    participant A21 as Upload standard invitation and send emails A21
    participant A22 as Receive acceptance A22
    participant A23 as Making the final list of the participants A23
    participant Server
    participant Questions as _Participants and questions

    Rules->>A21
    Rules->>A22
    Rules->>A23
    Questions->>A21
    A21->>A22: Sending emails
    A22->>A23: Receive
    Server->>A21
    Server->>A22
    Server->>A23
    A23->>Confirmation: Confirmation
```

The diagram illustrates the process of creating invitations and the final list of participants. It features three main use cases: A21 (Upload standard invitation and send emails), A22 (Receive acceptance), and A23 (Making the final list of the participants). The process is initiated by 'Rules of organizing lists' and '_Participants and questions', both of which lead to A21. A21 sends emails to A22, which then receives acceptance and leads to A23. The 'Server' provides input to all three use cases. Finally, A23 outputs a 'Confirmation'.

Ветка: A2	Название: Create invitations and the final list of participants	Номер: 4
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Purpose: Set up automatic sending of messages to specified emails

Viewpoint: System administrator