


DEVELOPMENT OF WEB SERVICES FOR MANAGING EVENTS IN THE CORPORATE SYSTEM


Took the job for execution
Researcher advisor

Yauheni Matveyenka
Viktar Liauchuk

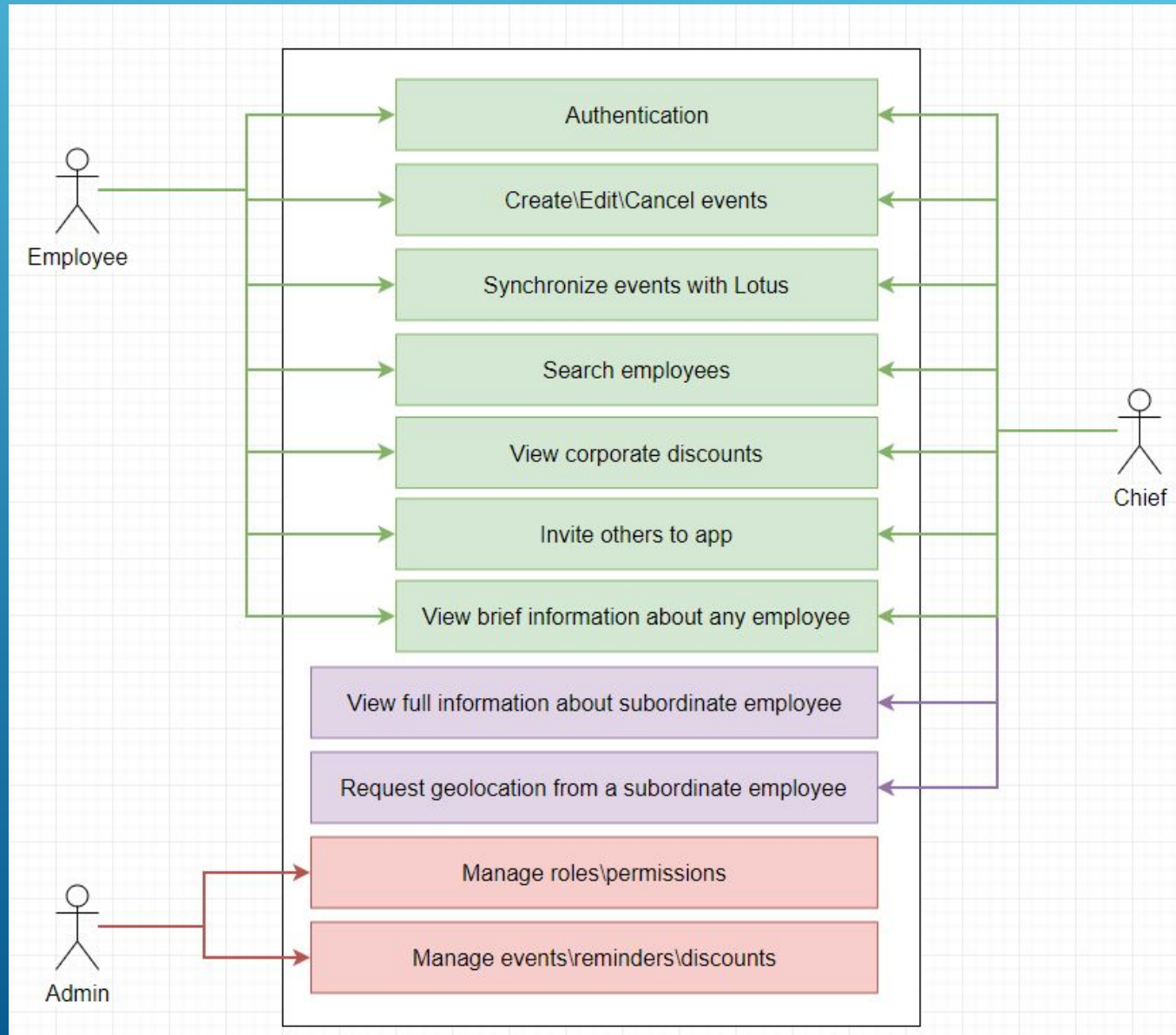
ALTERNATIVE SOLUTIONS

- Lotus Notes:
 - No mobility
 - Performance problem
 - Bulky
 - Facebook Workplace:
 - No corporate data
 - Social network for the company \neq corporate manager
 - Difficult integration with other systems
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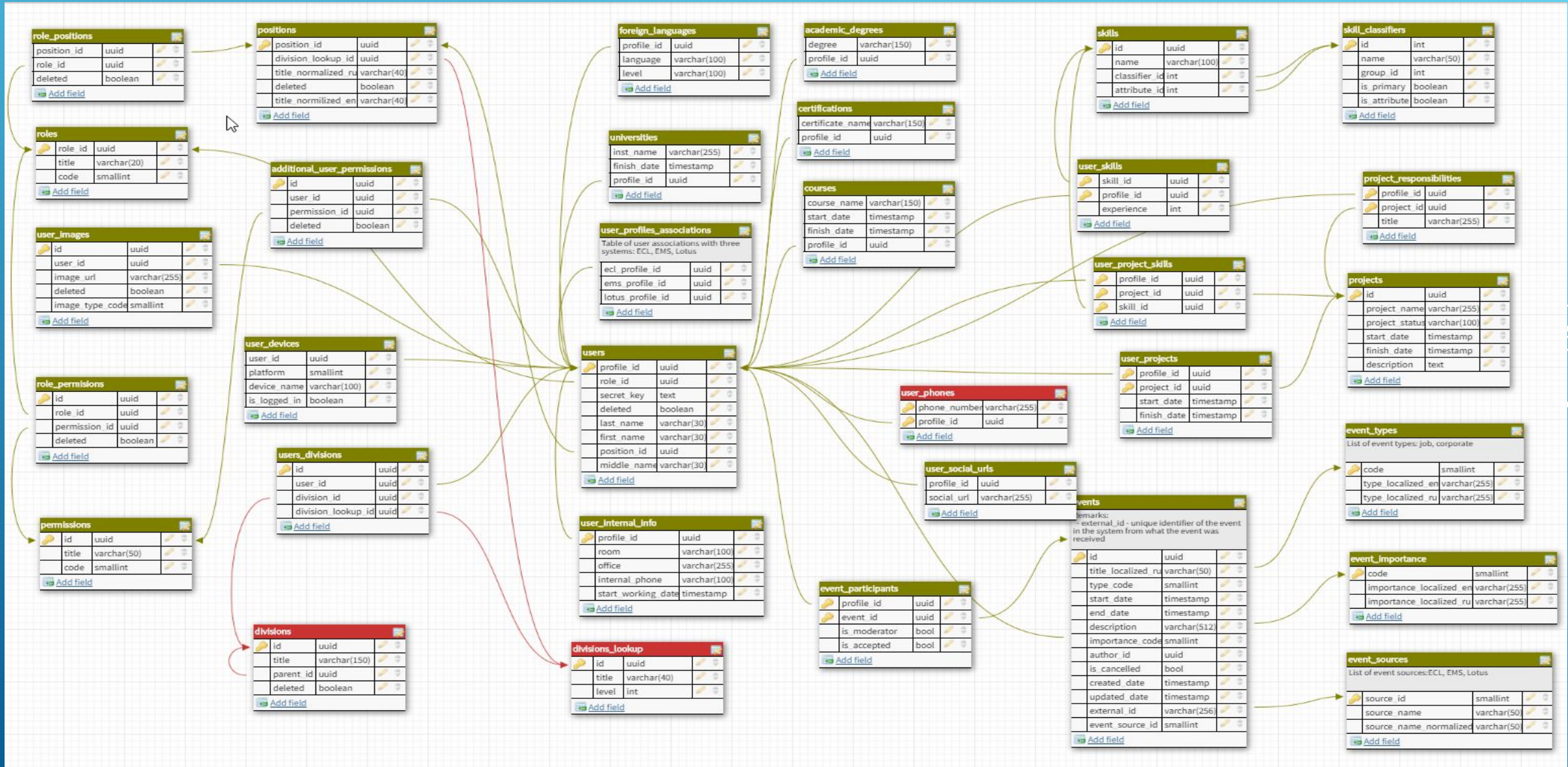
STATEMENT OF THE PROBLEM

- Integration with Lotus Notes
 - Event management:
 - Create, edit, cancel
 - Synchronize events with a Lotus calendar
 - Sync events with the calendar on the device
 - View employee data :
 - Skills
 - Projects
 - Education
 - Contact details
 - Position held
 - Office presence
 - Integration with IBM Sametime (UWP)
 - Search for colleagues :
 - By name
 - By phone number
 - By division
 - By location
 - Advanced search for employees by technology and experience
 - Ability to request geolocation
 - Push- notifications
 - Multilingual
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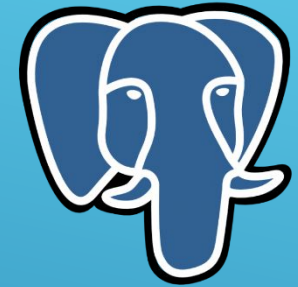
FUNCTIONALITY



DATA MODEL



DEVELOPMENT TOOLS



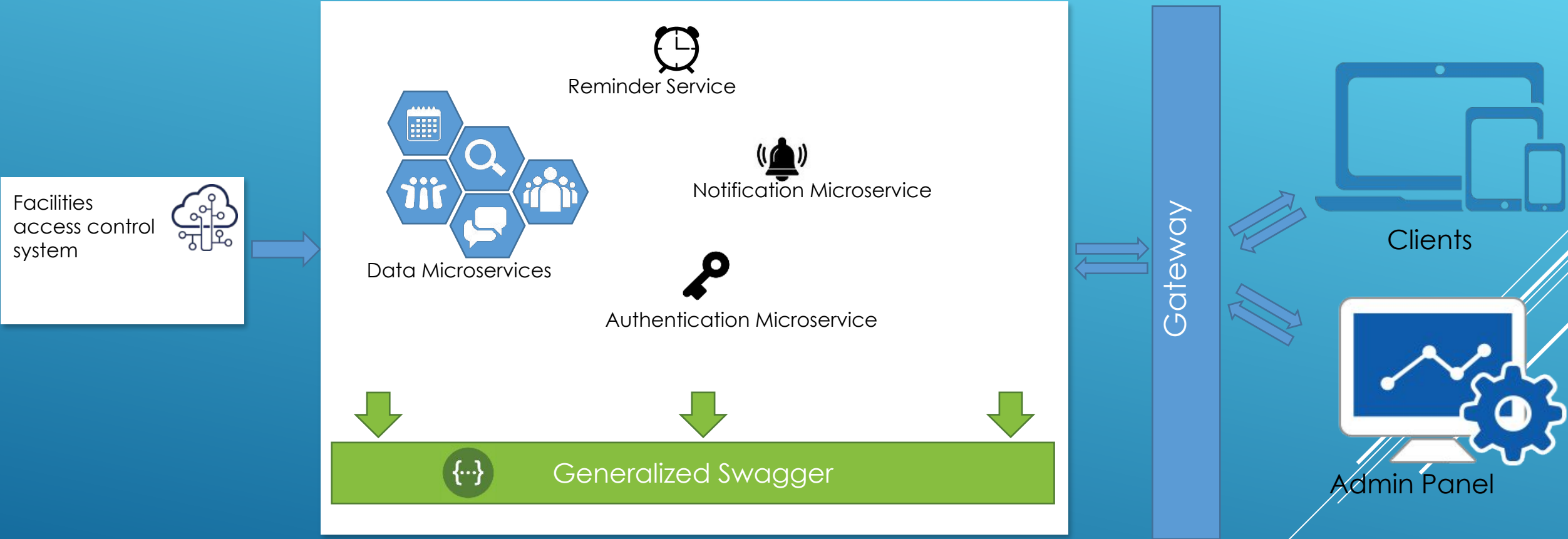
PostgreSQL



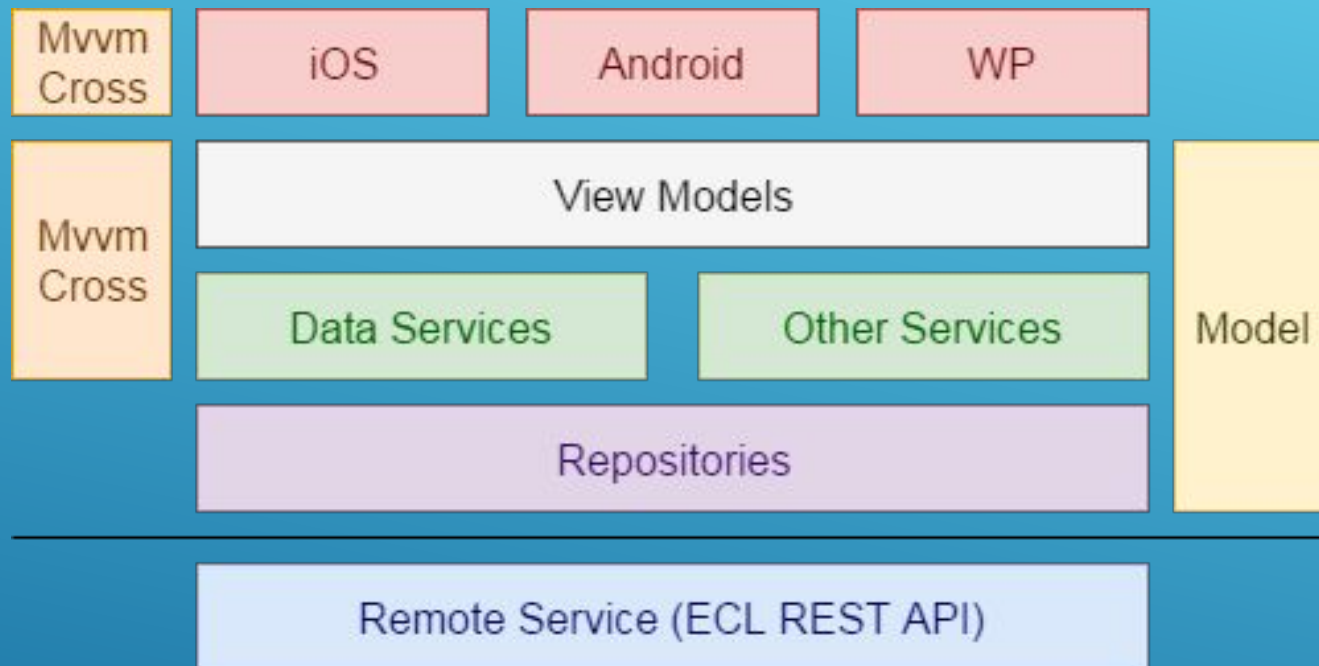
GitLab



BACKEND ARCHITECTURE

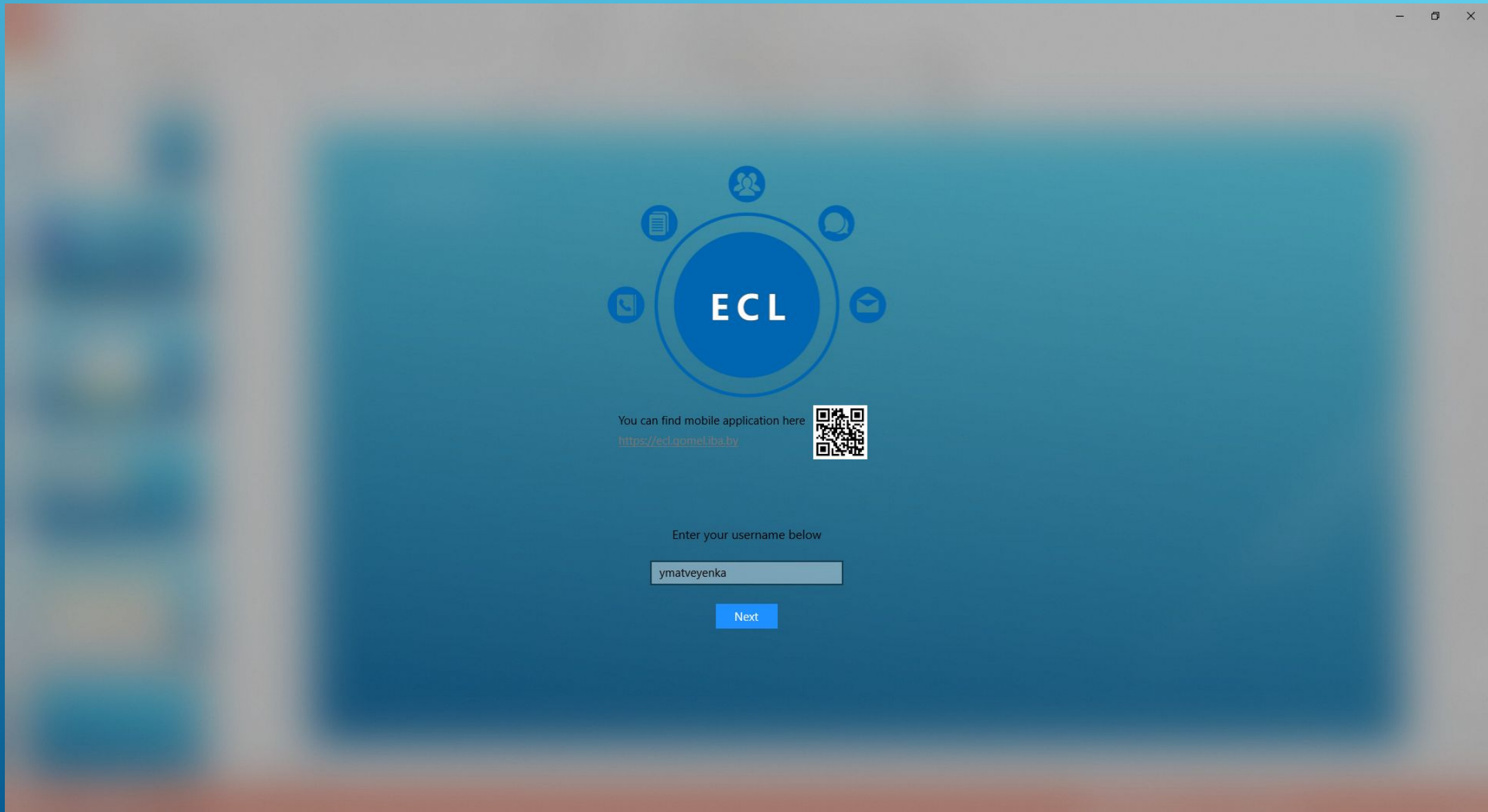


CLIENT ARCHITECTURE



- Data level – Models contracts
- Repositories – Basic operations with data, one repository for one entity
- Services – Data manipulation and organizing business logic
- View Models – Models prepared for presentation
- Presentation – Views

TESTING: LOGIN



TESTING: CREATE EVENT

Employee Corporate Life

Events



Events

Search



Discounts

Job Corporate Archive



09.05.2019

  9 мая 2019 года - выходной день	Accepted	9 May 2019 00:00 - 10 May 2019 00:00
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08.05.2019

  8 мая 2019 года - выходной день	Accepted	8 May 2019 00:00 - 9 May 2019 00:00
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07.05.2019

  7 мая 2019 года - выходной день	Accepted	7 May 2019 00:00 - 8 May 2019 00:00
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
06.05.2019

  6 мая 2019 года - выходной день	Accepted	6 May 2019 00:00 - 7 May 2019 00:00
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02.05.2019

 Печати в дневник	Accepted	2 May 2019 10:00 - 2 May 2019 18:00
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

01.05.2019

  1 мая 2019 года - выходной день	Accepted	1 May 2019 00:00 - 2 May 2019 00:00
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25.03.2019

 ECL altogether 230	Accepted	25 Mar 2019 14:00 - 25 Mar 2019 14:30
  Митингъ	Accepted	25 Mar 2019 16:10 - 25 Mar 2019 16:30

22.03.2019

  Семинар: Microsoft To-Do: React & Redux practices. Alex Migutski / Актуальные практики разработки SPA-приложений с использованием React & Redux. Алекс Мигутский	Accepted	22 Mar 2019 10:00 - 22 Mar 2019 12:00
 test \notifications	Accepted	22 Mar 2019 12:30 - 22 Mar 2019 13:30

Settings

Yauheni Matveyenka

Add event

Title

Поездка в Силичи

Description

Start date

3/2/2019 6 30

End date

3/2/2019 18 00

Type

Corporate

Importance

High

Repeat

Off

Reminder for all participants

On

1 h.

TESTING: SEARCH EMPLOYEES

The screenshot displays a corporate search application interface. On the left is a navigation sidebar with options: Employee Corporate Life, Events, Search (selected), and Discounts. At the bottom of the sidebar are Settings and the user's name, Yauheni Matveyenka. The main search area has a search bar containing '320'. Below the search bar, there are two sections of results: 'Employees' room is '...320...'' and 'Employees' phone number is '...320...'. The first result in the first section is highlighted and shows a profile card for Yauheni Matveyenka with the address 'Gomel, Fedyuninskogo st. 19, 18th building/320'. The right-hand pane shows the detailed profile for Yauheni Matveyenka, a Software Engineer. It includes a profile picture, status indicators for 'Open Sametime' and 'In Office', and a list of contact information (Internal, Personal, and Location). Below this are tabs for 'Division', 'Education', 'Skills', and 'Projects'. The profile details include: Chief (blurred), Position (Software Engineer), Sector (Sector #4), Department (Information Systems Integration department), Division (2nd Software Development & Support Division), Sphere (Production), Company (IBA Gomel), and Employment Date (9 Oct 2018).

Employee Corporate Life

Events

Search

Discounts

Settings

Yauheni Matveyenka

Search

320

Employees' room is '...320...'

Matveyenka Yauheni Gomel, Fedyuninskogo st. 19, 18th building/320

Employees' phone number is '...320...'

Profile

Yauheni Matveyenka
Software Engineer

Open Sametime
In Office

Contact Information

Internal Phone :
Personal Phone :
Location :

Division Education Skills Projects

Chief

Position
Software Engineer

Sector
Sector #4

Department
Information Systems Integration department

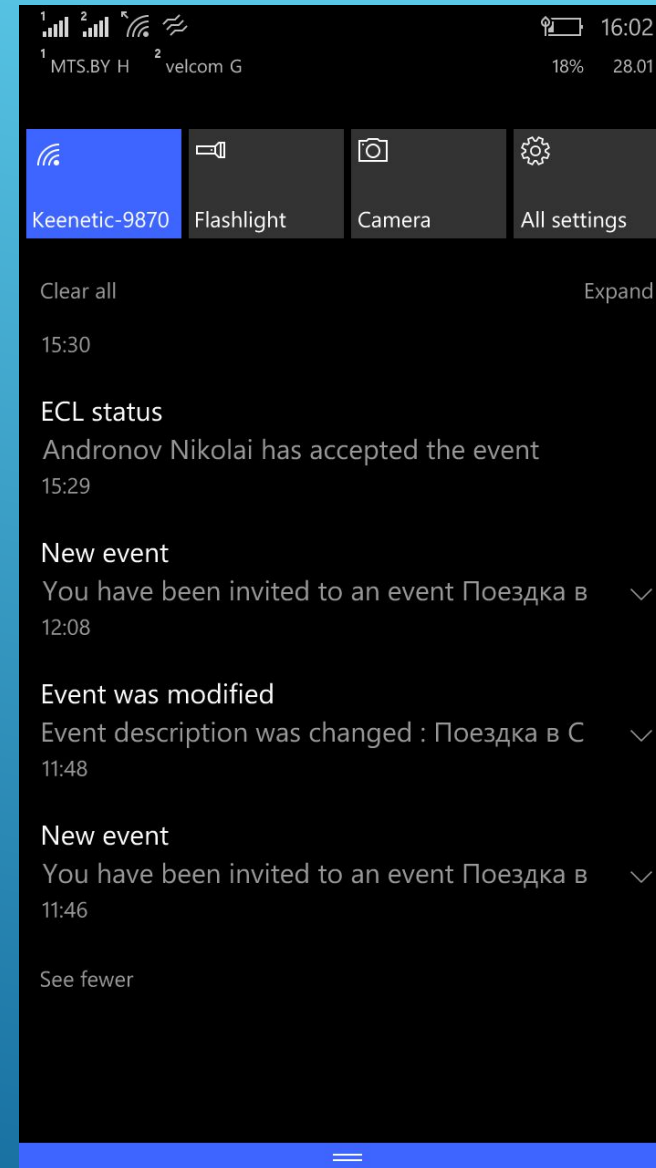
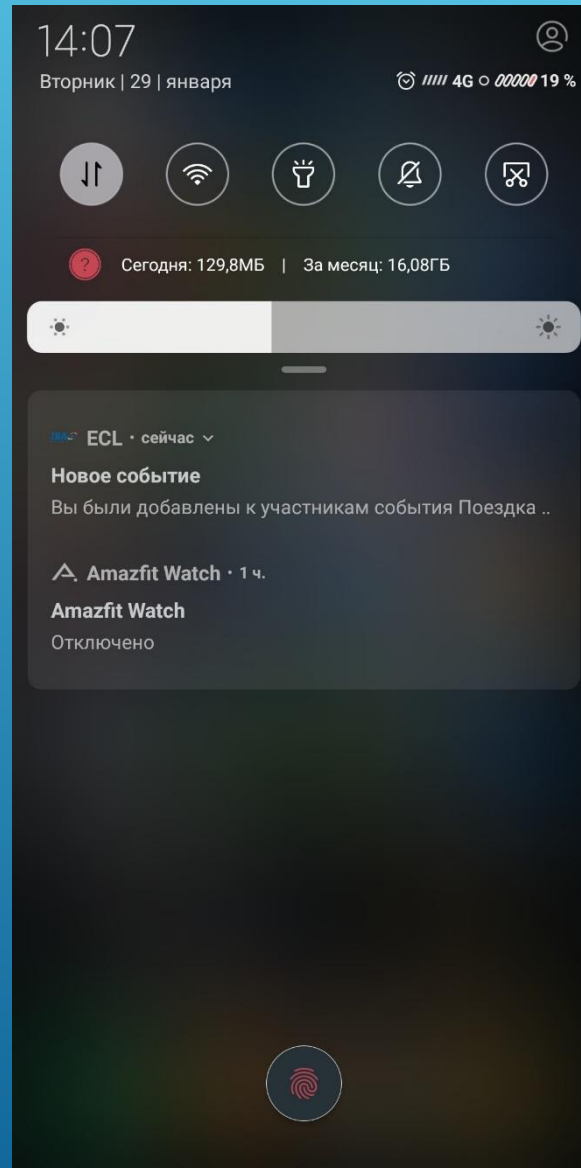
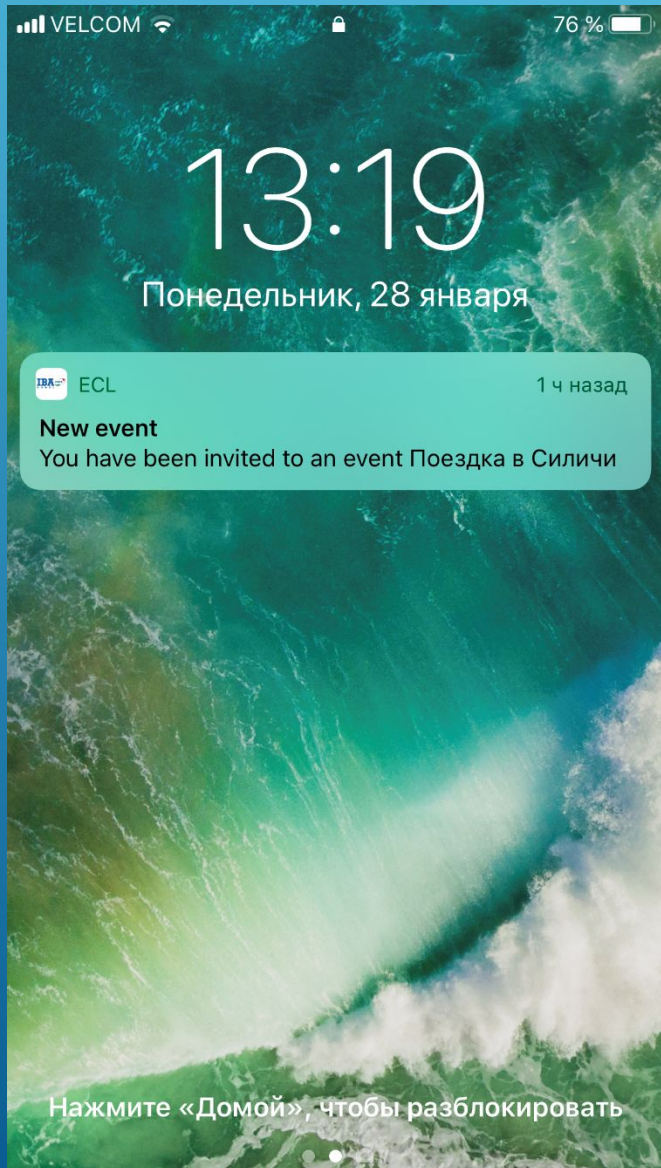
Division
2nd Software Development & Support Division

Sphere
Production

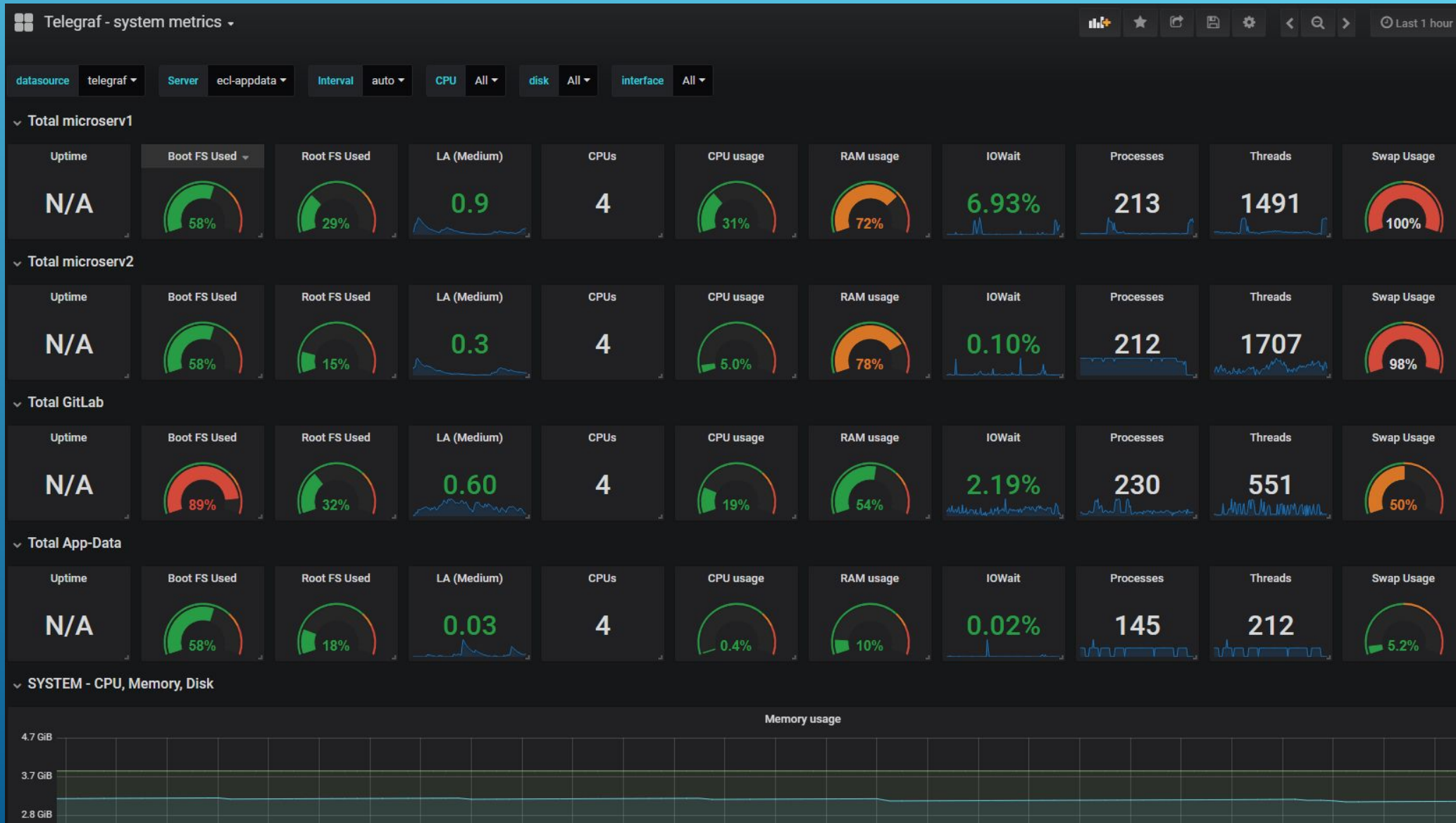
Company
IBA Gomel

Employment Date
9 Oct 2018

TESTING: NOTIFICATIONS

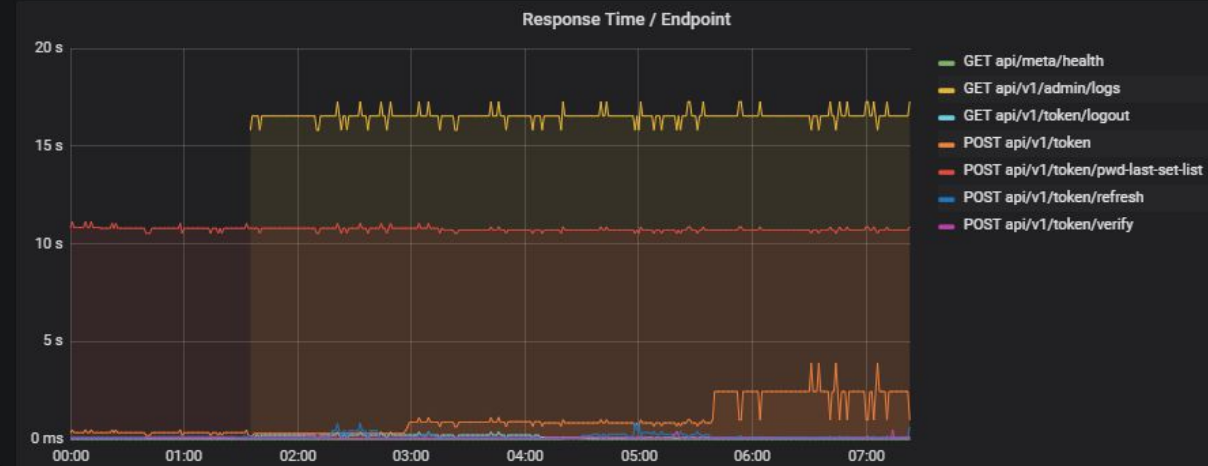
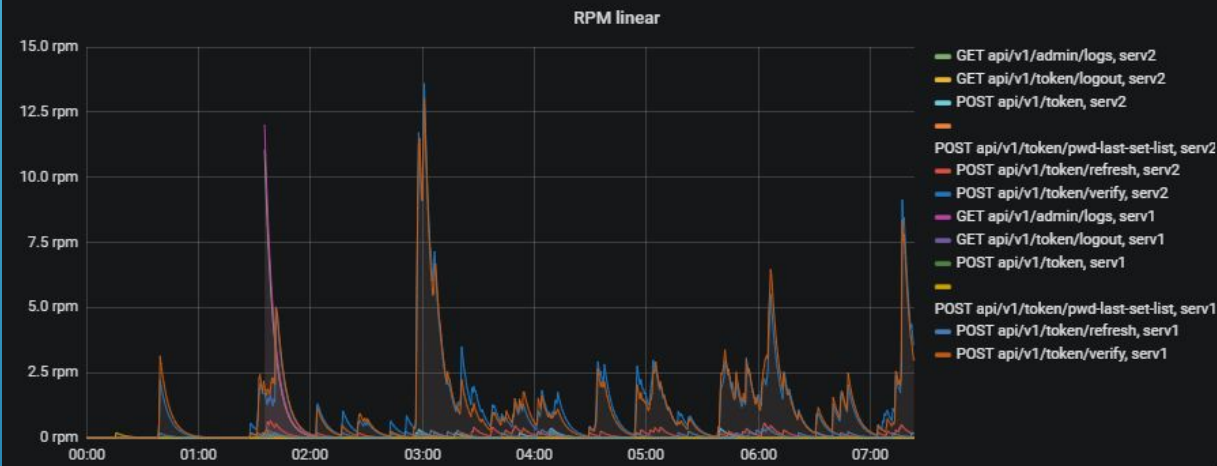


PERFORMANCE



PERFORMANCE

Endpoints



AMOUNT OF WORK

- 17 microservices
 - 400+ unit tests
 - 300+ endpoints
 - 30+ database tables
 - 4 supported platforms + web
 - 500+ users
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RESULTS OF THE DIPLOMA PROJECT

- Publications at the scientific conference “Actual problems of physics and techniques” and “New mathematical methods and computer technologies in design, production and research”.
 - The certificate of implementation.
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