

*Intelligence framework for labour-market and
educational services resources management*

"Personal reserve"

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Main purpose:

The main goal of this work is the program, which could help a user on the base of Internet to select graduating students according to available vacancies.

Work results

Initially “Personnel reserve” system deals with:

- Automatic selection of specialists in accordance with required demands
- Forming statistics information concerning vacancies, specialists, regional companies
- Monitoring of the changes and renewed data concerning specialists
- Estimation of a specialist based on the rating system
- Research of the professional growth dynamics
- Vacancies, specialists and regional business information search
- Using in different kinds of enterprises
- Loading information about vacancies from basic regional virtual Internet portals employment agencies
- Taking into account knowledge and their importance for specialists selection on available vacancies

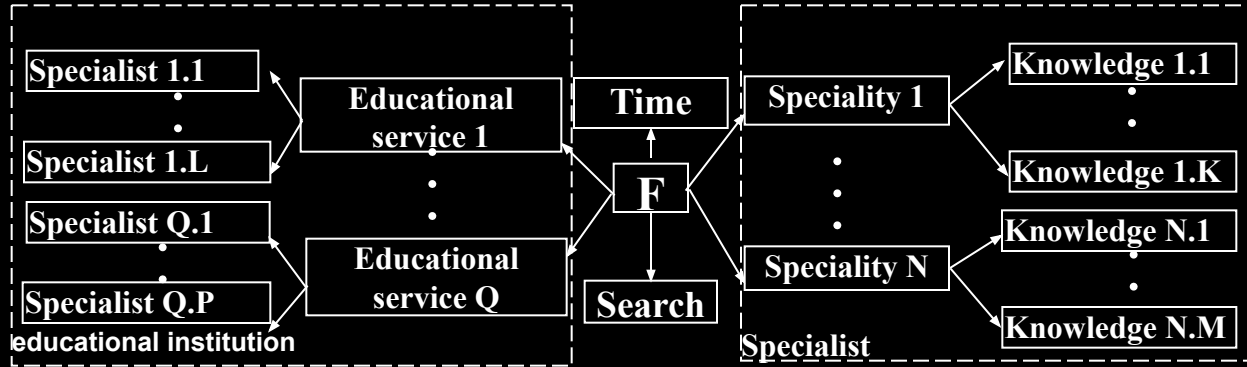
Future trends

In the immediate future intelligence framework for labour-market and educational services resources management "PERSONAL RESERVE" will be completed with new fundamental functional capabilities:

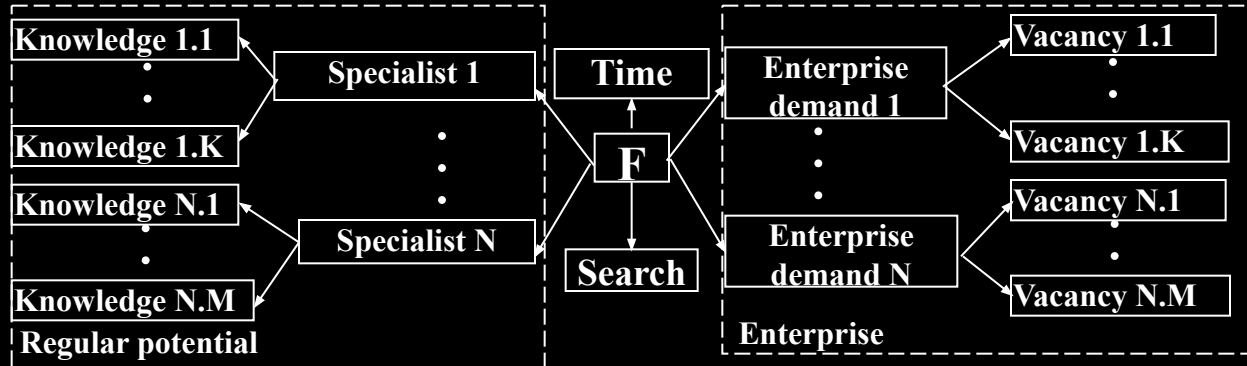
- Usage of flexible system based on different methods of personnel selection
- Exchange data with other recruitment agencies, standardization of data formats.
- Universalisation of data formats for other universities to use.

Foundation hypothesis

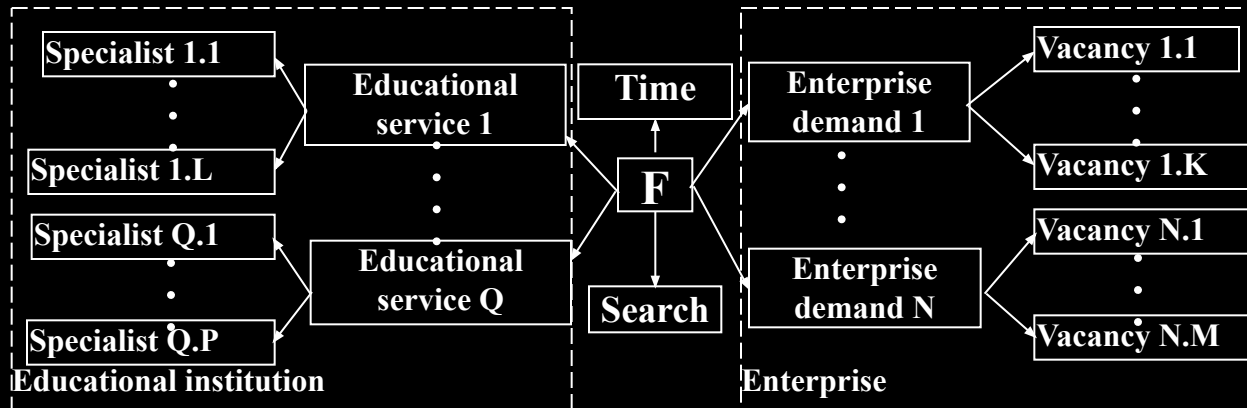
Specialist teaching model.



Regular problem resolution model.



Enterprises and educational institution communication model.



Specialist MODEL
(seller needs and offers)

Vacancy MODEL
(buyer needs)

Educational service MODEL
(producer needs and offers)

Models

Data-analytical models of labour-market subjects.

**Enterprise
model**

**Employment
agency model**

**Educational
institution model
(EI).**

Data-analytical basic concept models (general models).

**Demands
model**

**Trade
model**

**Profession
model**

**Knowledge
model**

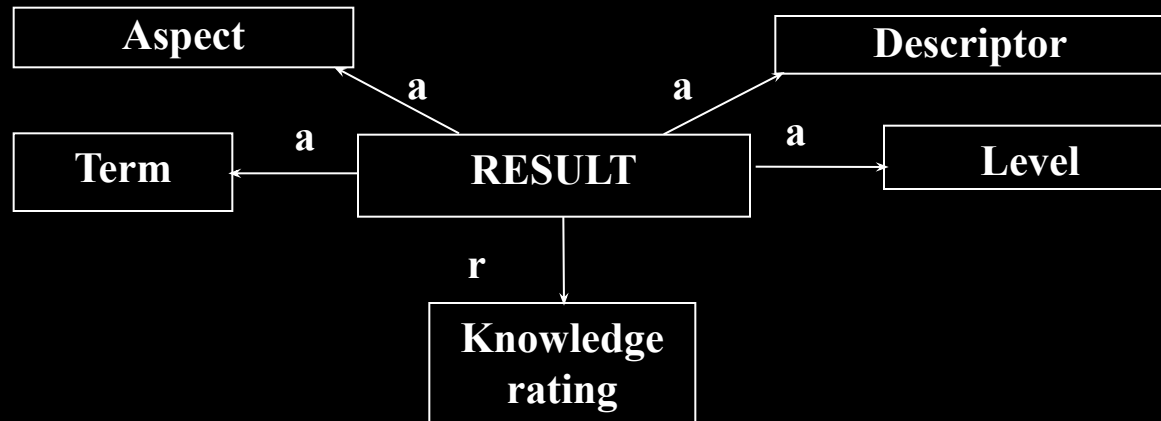
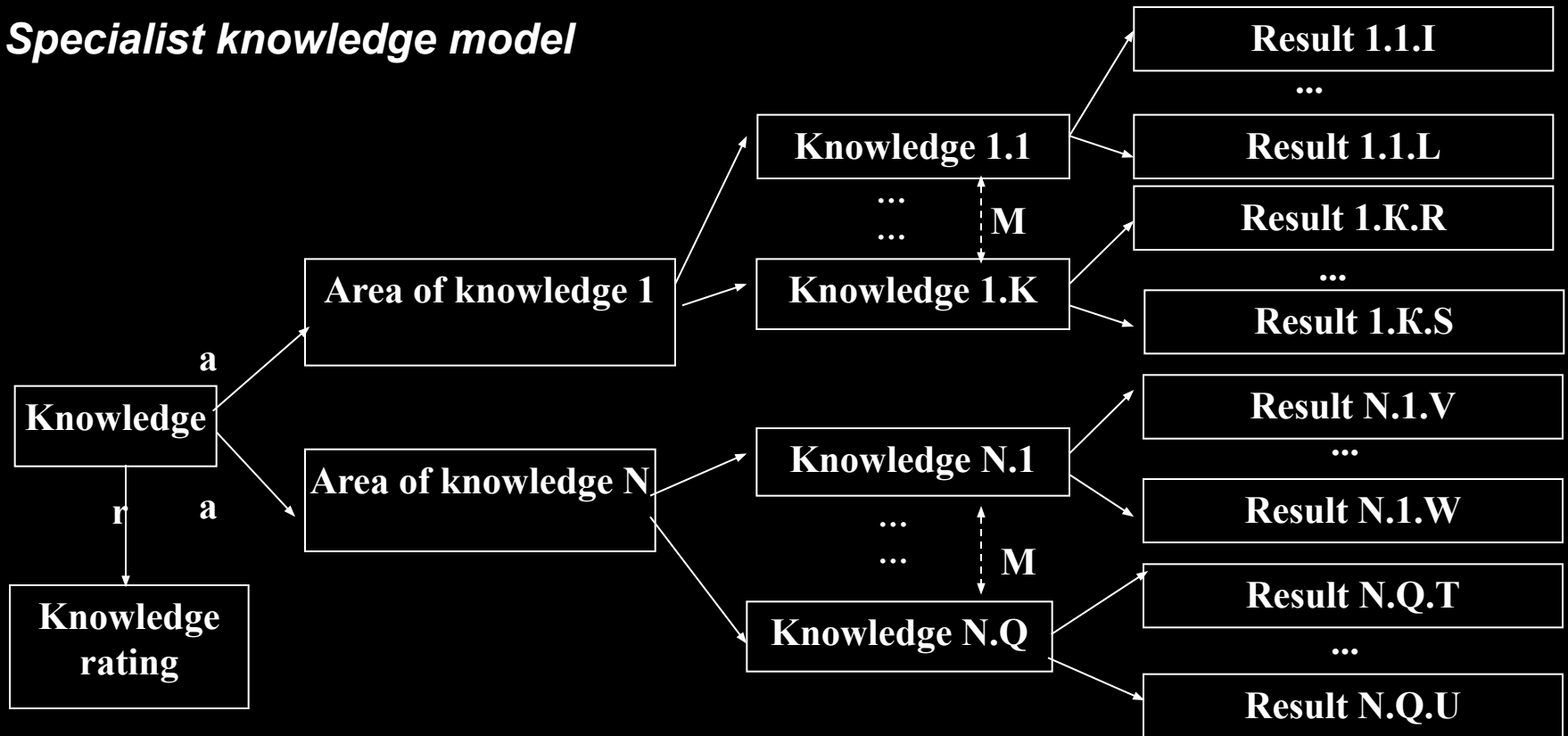
Data-analytical complex models.

Vacancy model

**Educational service
model**

Specialist model

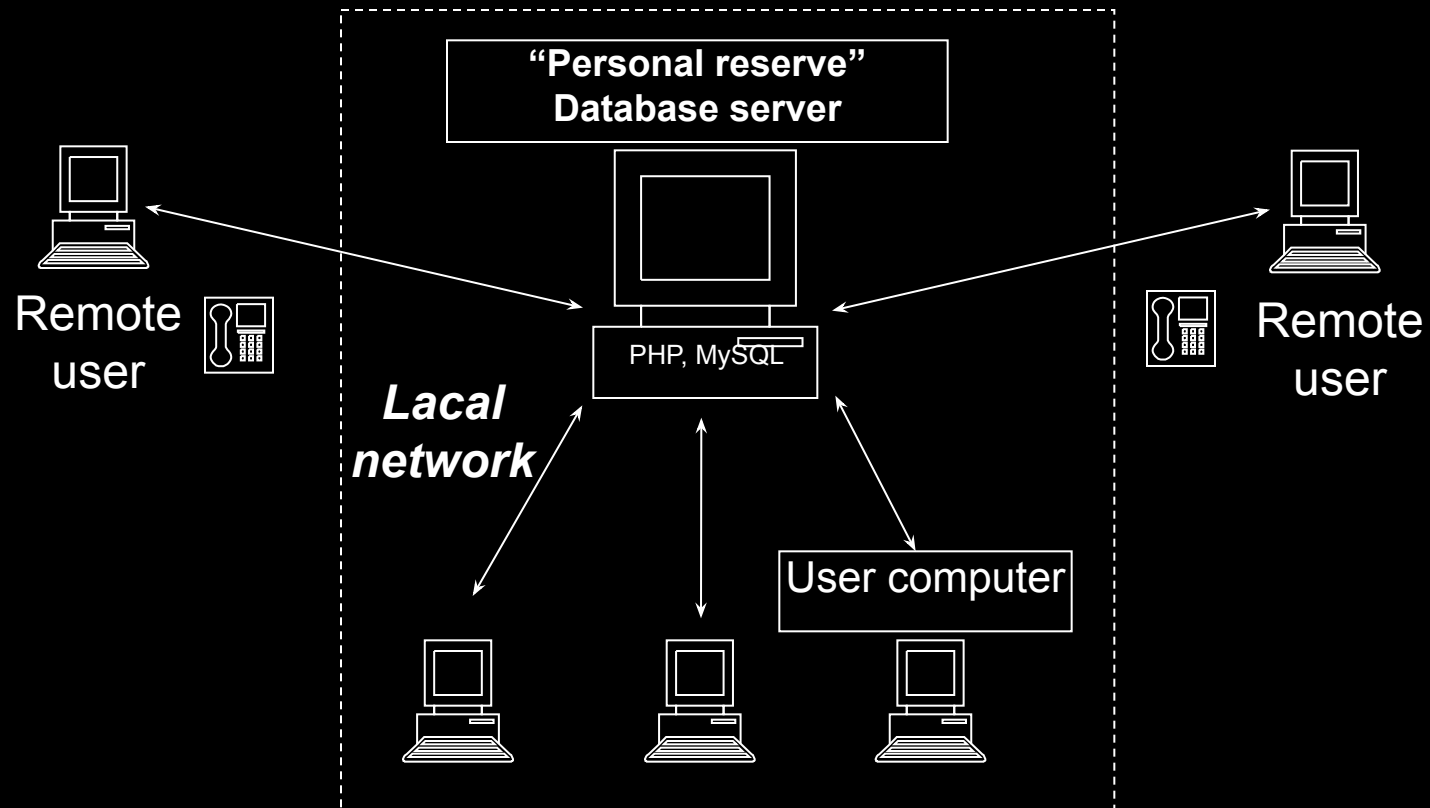
Specialist knowledge model



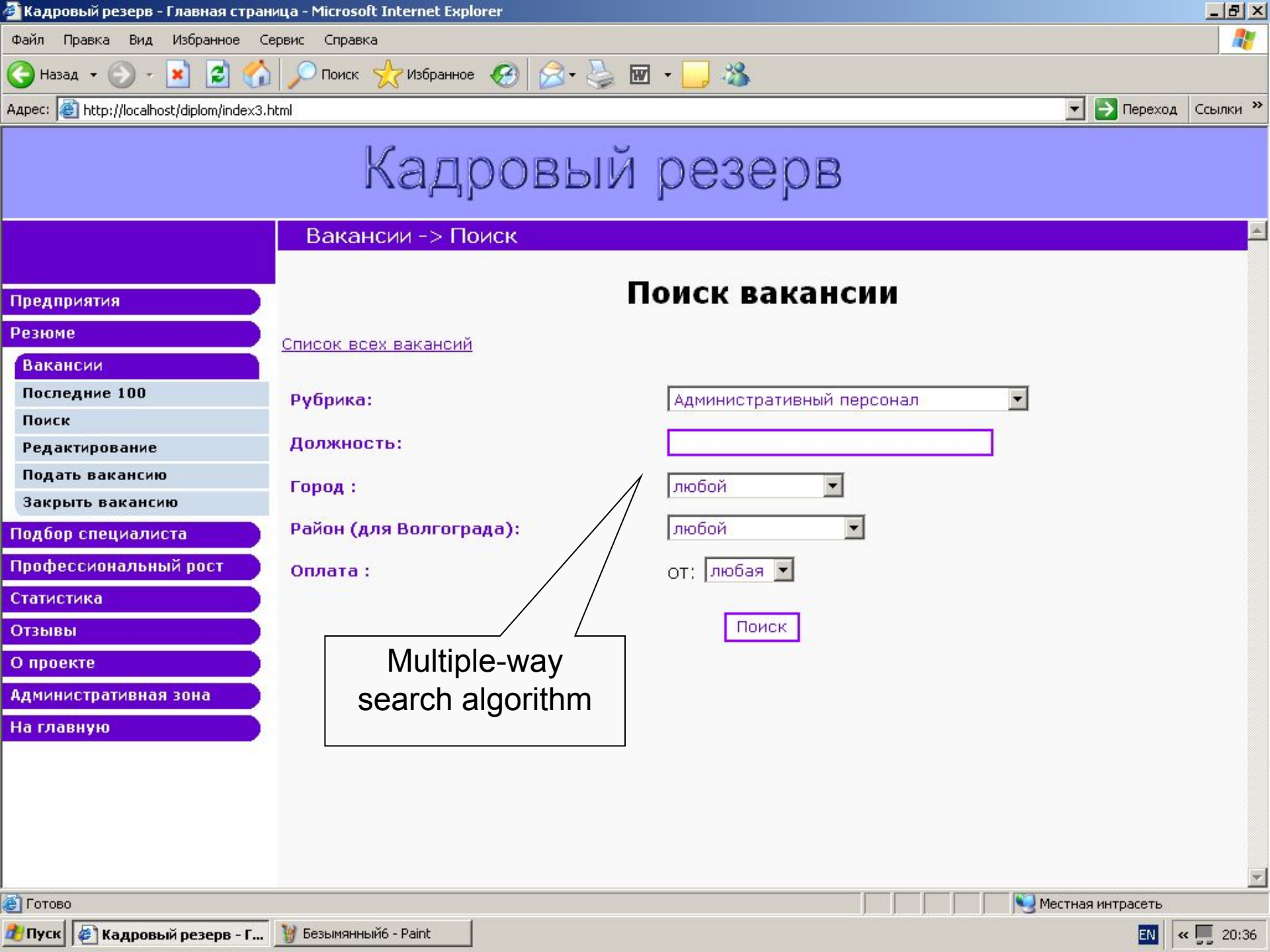
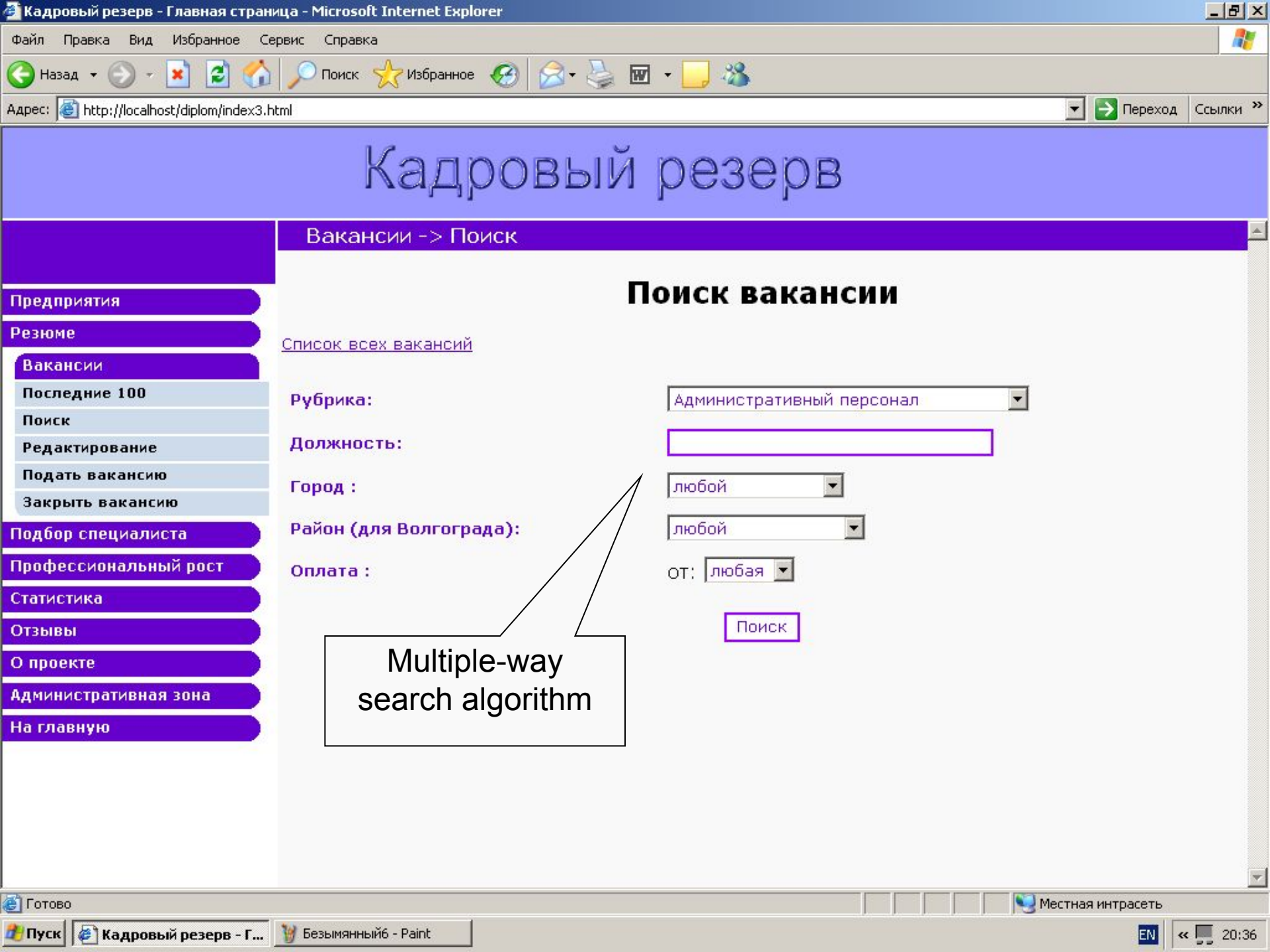
Intelligence framework for labour-market and educational services resources management "PERSONAL RESERVE":

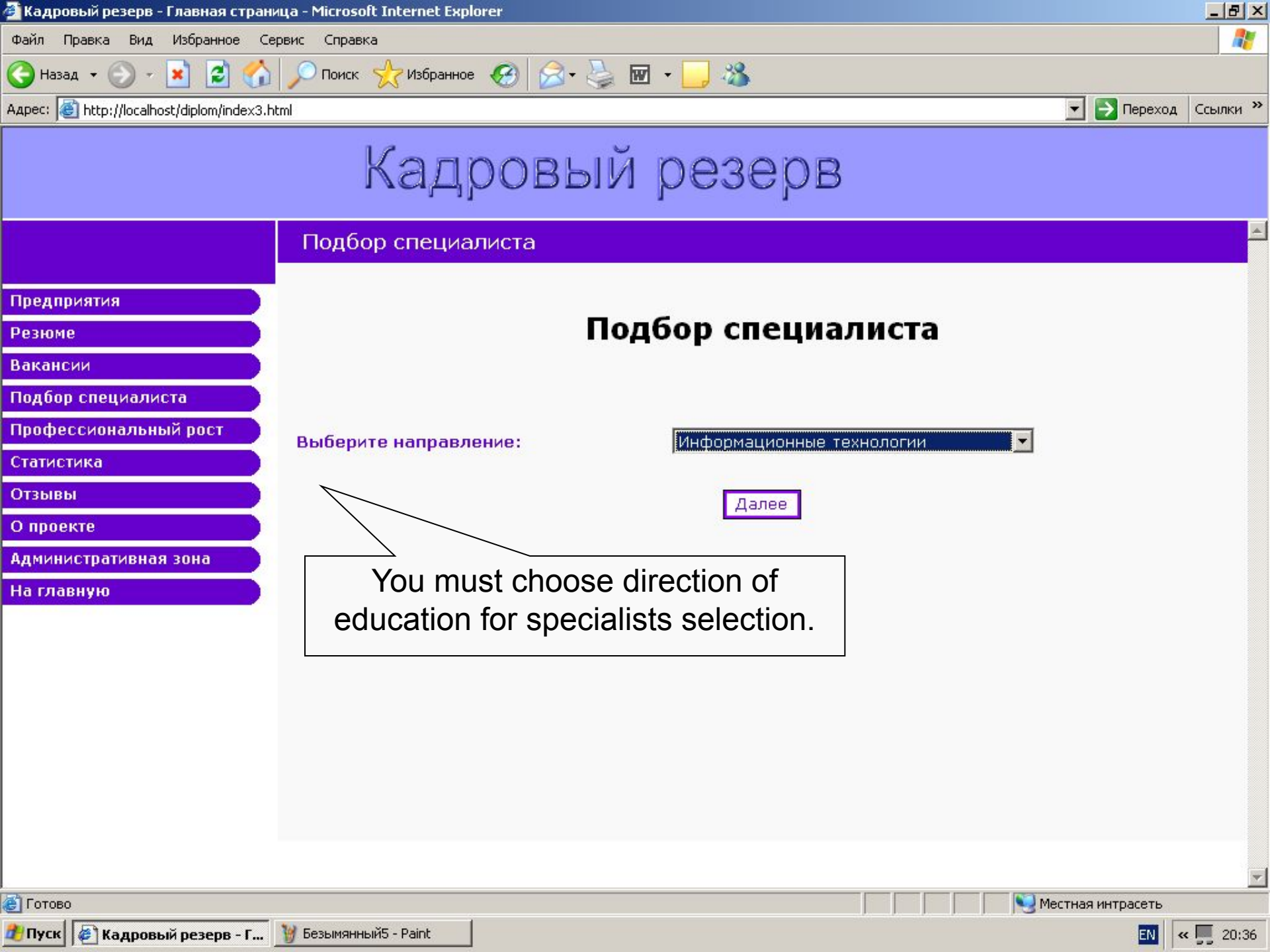
- Subsystem «Vacancies»
- Subsystem «Enterprises»
- Subsystem «Vacancies automatic selection»
- Subsystem «Trade growth»
- Subsystem «Analysis and predication»
- Multi-agent module for virtual employment agency interaction

System architecture



System-work principle





Кадровый резерв

Подбор специалиста

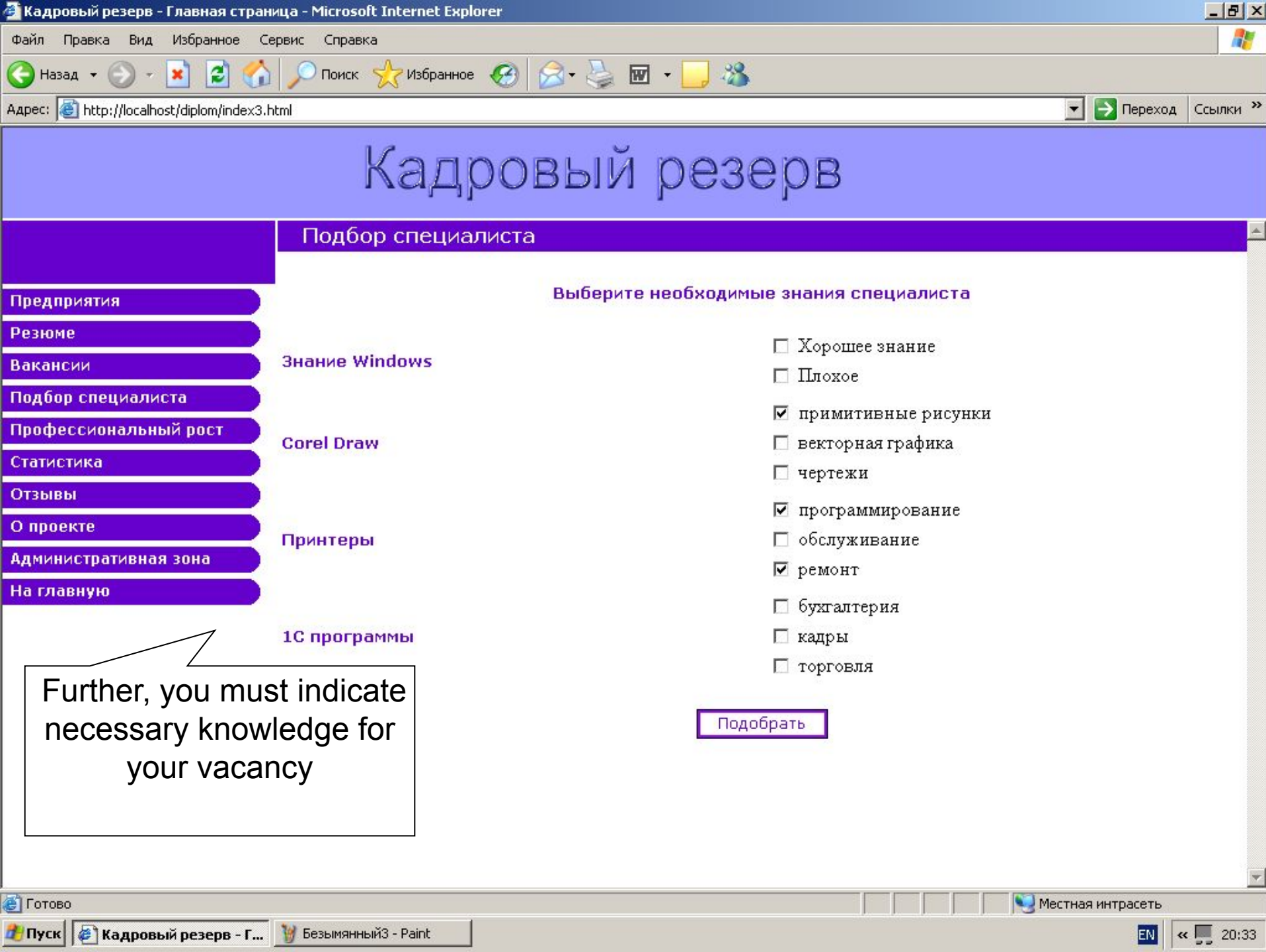
Подбор специалиста

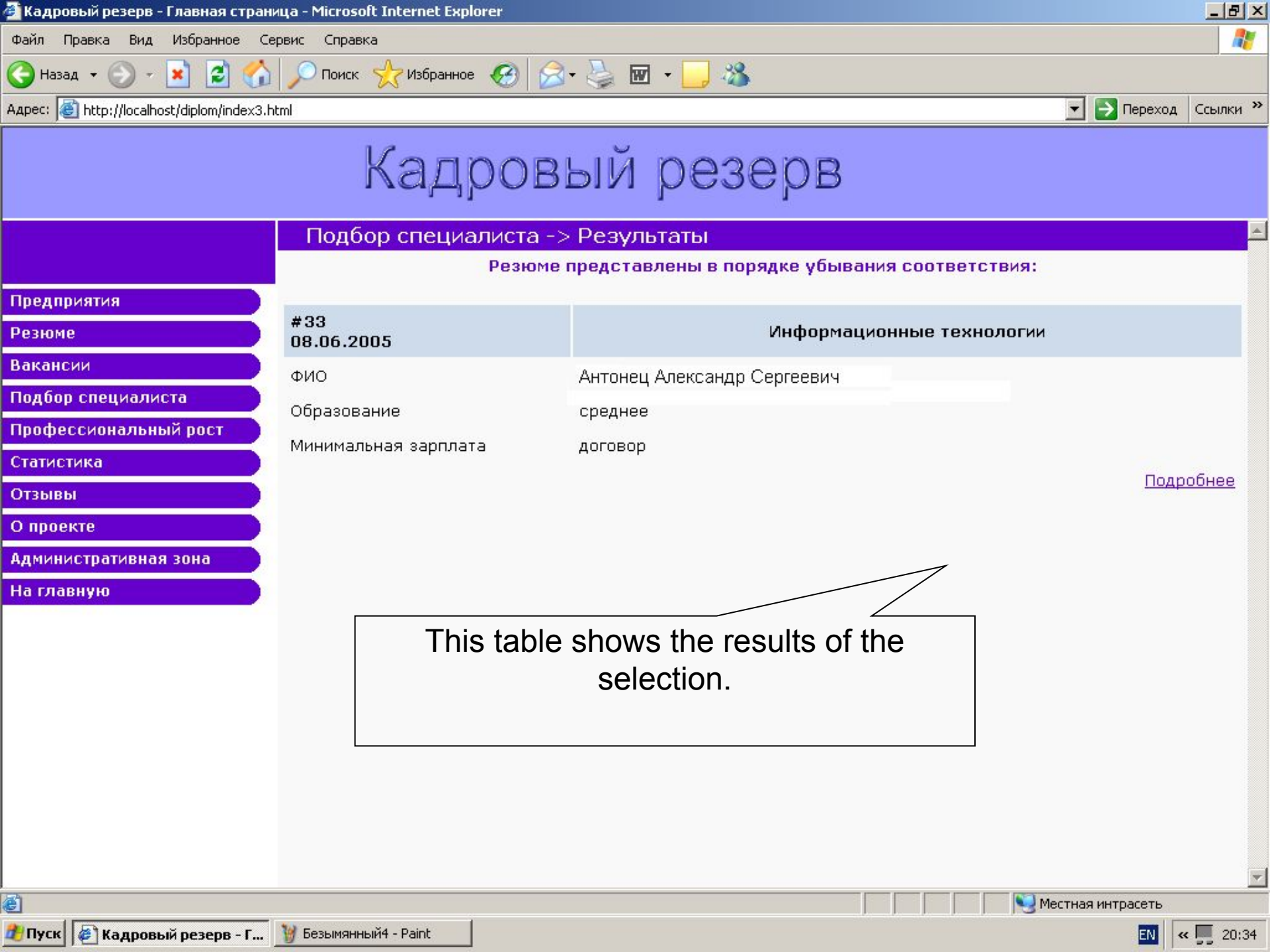
Выберите направление:

Информационные технологии

Далее

You must choose direction of education for specialists selection.





Кадровый резерв

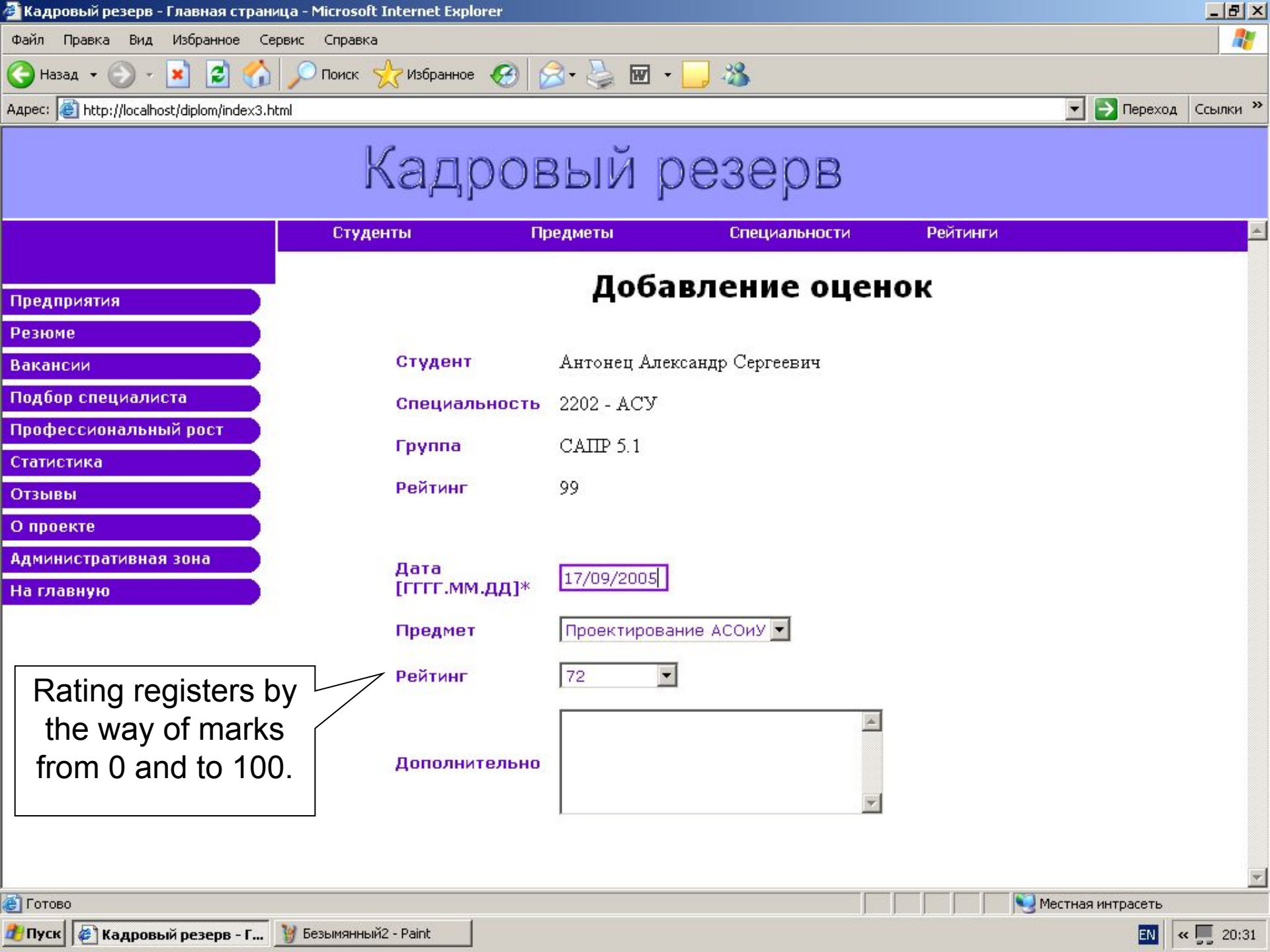
Подбор специалиста -> Результаты

Резюме представлены в порядке убывания соответствия:

#33 08.06.2005	Информационные технологии
ФИО	Антонец Александр Сергеевич
Образование	среднее
Минимальная зарплата	договор

[Подробнее](#)

This table shows the results of the selection.



Кадровый резерв

Студенты

Предметы

Специальности

Рейтинги

Добавление оценок

Студент Антонец Александр Сергеевич

Специальность 2202 - АСУ

Группа САПР 5.1

Рейтинг 99

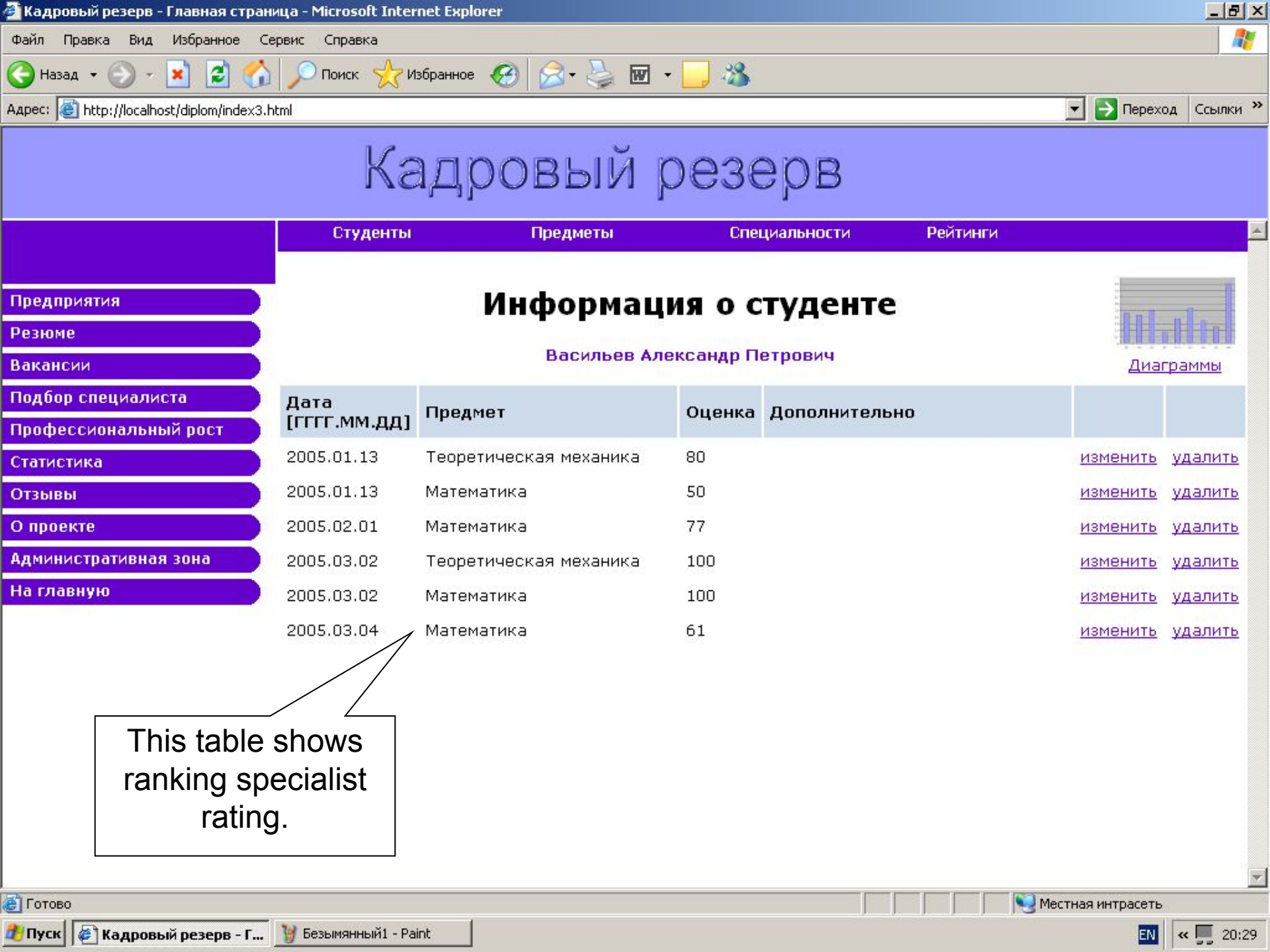
Дата [ГГГГ.ММ.ДД]* 17/09/2005

Предмет Проектирование АСОиУ

Рейтинг 72

Дополнительно

Rating registers by the way of marks from 0 and to 100.



Кадровый резерв

Студенты

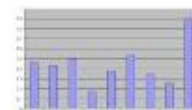
Предметы

Специальности

Рейтинги

Информация о студенте

Васильев Александр Петрович



Диаграммы

Дата [ГГГГ.ММ.ДД]	Предмет	Оценка	Дополнительно		
2005.01.13	Теоретическая механика	80		изменить	удалить
2005.01.13	Математика	50		изменить	удалить
2005.02.01	Математика	77		изменить	удалить
2005.03.02	Теоретическая механика	100		изменить	удалить
2005.03.02	Математика	100		изменить	удалить
2005.03.04	Математика	61		изменить	удалить

This table shows
ranking specialist
rating.

