SLOJ

Smart Line Online Judge

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Agenda

- Introduction
- Our Project
- Motivation
- Project
- Conclusion
- References

Agenda

- Introduction
 - o Problem Definition
 - o Purpose
- Our Project
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Introduction

Problem Definition

General Problem

- o "Programming is for computer only." Bad mindset
- o Programming is a Science

Problem Definition (Cont.)

• Special Problem

o Programming is NOT writing code only ...

Programming is Solving Problems

Problem Definition (Cont.)

•So that ...

Online Judge has appeared

Problem Definition (Cont.)

• What is Online Judge?

- Simply, programmers from all over the world enter into contests or challenges between each other
- Many of them set the contest and its problems, and the others enter this contest and solve the problems

<u>Purpose</u>

- Dissemination Programming
 - o Programming is a SCIENCE to learn and teach
 - There is no science nowadays doesn't use computer science and programming somehow

Self-study Learning

- o For youth:
 - Job opportunities
 - Science to learn and teach

Self-study Learning

o For anyone:

- Anyone can enter Computer Science, and program
- The person who program and solve problems, can solve problems in general, not just in coding

Academic Education

o For kids:

- Learning programming games instead of playing it only
- Increasing thinking skills

Academic Education

o For students:

- Programming is a science to be learnt, and schools, universities, institutes, etc. should teach this science.
- Increasing their intelligence

Academic Education

- o For teachers:
 - Teaching (and learning) new sciences
 - Getting best ways to teach

Agenda

• Introduction

Our Project

- Brief Description
- o Stakeholders of our system
- o Project Plan
- What is different in our system?
- Motivation
- Project
- Conclusion
- References

Our Project

Brief Description

- Online Judge System that allows:
 - o **Problem Setter** to set a **contest** (with its **problems**, **testcases**, etc.)
 - Solver enters a contest and start solving problems

Stakeholders of our system

- Programmers and Developers
- Coders
- Students
- Teachers
- Kids
- Anyone wants to program

Project Plan

- Phase One:
 - o Core System
- Phase Two:
 - Academic Education
- Phase Three:
 - Guarantee that the student doesn't cheat

What is different in our system?

- Providing a lot of tools to facilitate to the programmers
- Can be used somehow in Academic Education

Guarantee that the student doesn't cheat

Doesn't target a specific level

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- Our Project

Motivation

- o Why did we choose this project?
- o Language, Tools and Libraries we used
- Project
- Conclusion
- References

Motivation

Why did we choose this project?

- We aim to disseminate programming as we can
- We have learned from programming a lot and still, so, we want to get honor with teaching programming somehow

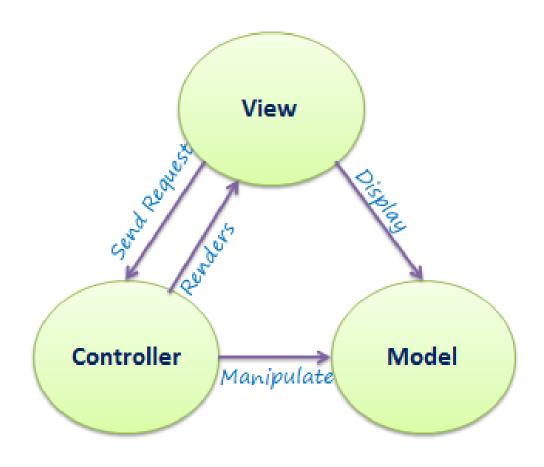
Programming language we used

ASP.NET



Methodology we used

MVC (Model-View-Controller)



Tools we used

Microsoft Visual Studio



Tools we used (Cont.)

Microsoft SQL Server



Tools we used (Cont.)

• Kendo UI – Telerik



Libraries we used

Bootstrap



Libraries we used (Cont.)

• jQuery



Libraries we used (Cont.)

• jQuery UI



Agenda

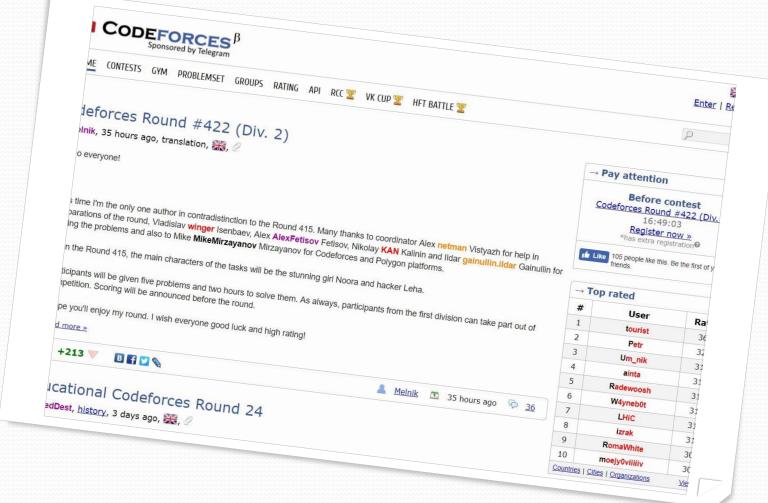
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Project

- o In details somehow
- o Similar Ideas
- Conclusion
- References

Similar Projects

Codeforces



http://codeforces.com/

URI Online Judge



https://www.urionlinejudge.com.br/judge/en/login

UVa Online Judge



https://uva.onlinejudge.org/

A2 Online Judge



https://a2oj.com/

NOTE: This website created by our colleague Ahmed Ali who graduated from Faculty of Computers and Information – Cairo University 2009 and now he is a software engineer in Google

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Conclusion

- ∘ We hope that ...
- o Future Work
- o Thanks to...
- Any Questions
- References

Conclusion

We hope that ...

 We produced a simple software that can help programmers and can disseminate programming

• We contribute in a future science like programming

Future Work

•Simple software which guarantees that student doesn't cheat

If you don't thank people,

you don't thank ALLAH

Finally, Thanks To ...

- Our FCI-H
- Our Supervisors
 - Prof. Atef Ghalwash
 - Dr. Aya Sedky
 - In addition to Ass.Prof. Amal A. Tabl
- Our Team
- Our Colleagues

Any Questions?

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References

References

- SLOJ Graduation Project Documentation
- Links:
 - https://www.slideshare.net/dawnedrake/making-your-senior-project-presentation
 - https://en.wikipedia.org/wiki/Online_judge
 - https://www.urionlinejudge.com.br/judge/en/login
 - http://codeforces.com/
 - https://uva.onlinejudge.org/
 - https://a2oj.com/

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Thanks