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Design and implementation of a social network for making acquaintances

BACHELOR THESIS

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Declaration

Hereby I declare, that this paper is my original authorial work, which I have worked out by my own. All sources, references and literature used or excerpted during elaboration of this work are properly cited and listed in complete reference to the due source.

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Acknowledgement

Zde bude uvedeno...

Obdobně jako poděkování se mohou vysadit shrnutí a klíčová slova pomocí prostředí Thesisacti a ThesisKeyWordsi.

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Introduction

1 Design

1.1 Existing social networks for making acquaintances

1.1.1 PlentyofFish

PlentyofFish (<http://www.plentyoffish.com/>) was founded in 2003 in Canada. It generates most of its revenue through advertising and some premium services. Unfortunately, it currently only serves users from Canada, UK, US, Australia, Ireland, New Zealand, Spain, France, Italy and Germany so I could not sign up at all.

From the publicly available information, it allows users to create a profile, search for others, message and chat with others. A 'Chemistry test' and some other methods of finding a match are offered, but without explaining precisely how they work.[3]

1.1.2 Match.com

Match.com (<http://www.match.com>) was launched in 1995 and is one of the oldest networks. It requires a paid subscription of ranging from 34.90EUR for one month to 77.40EUR for 6 months.

After signing up, the user is asked to upload a profile photo and fill in a detailed questionnaire about his or her character, interests, activities and relationships and preferences. Based on this information, the system tries to find the best matching partner. The user can then add the match to his or her favourites, follow their profile and message them. There is a special option to 'wink' at them, which can be used to quickly bring attention of the match and wait for their response to quickly assess their general interest without the need to send a message.[2]

1.1.3 OkCupid

OkCupid (<http://www.okcupid.com>) started in 2004. It claims to be the fastest growing site. TODO: use dating???

It is ad-supported and the essential features are free to use. A paid subscription called 'A-list' is also available for 14.95USD/month. It removes the ads, allows for advanced search, changing of username etc.

Matches can be found through search using general criteria or by filling out questionnaires. A user can also create his own questions, set their importance and expected answers. When another user fills them in, the

system calculates a match percentage. This process is probably unique to OkCupid.[1]

1.1.4 eHarmony

eHarmony (<http://www.eharmony.com>) is a paid service that was launched in 2000. It claims to have more than 33 million members. Subscriptions cost from 59.95USD for a month to 239.4USD for 12 months. It is primarily focused on finding a partner for marriage.

The service uses personality tests, mathematical matching and expert advice to find the best match. There are separate subsites targeted for specific social groups such as Asians, Christians, Jews, gays and lesbians etc. A new user has to fill in a very detailed questionnaire about his current status, personality and preferences.[?]

1.2 User data privacy

When using this kind of social networks, the user usually has to provide information about himself that is very sensitive and even intimate. Protection of this data is therefore a very serious concern.

The data is very valuable beyond it's original intent to find the best match. It can be used for instance to precisely target advertisements, give offers to buy new products and so on. Hence it is essential that the user is made clear how the information he enters on a website is used or if it is disclosed to third parties.

The user should also have the ability to choose what data is shared with other users. In the best case this control should be very fine, i.e. the user should not be forced to share information in blocks, should be able to deny concrete user from viewing his profile or parts of his profile etc. There should also be a simple tool to preview one's profile in the way others can see it.

If a user deletes any data on his profile, it should be physically deleted from all the servers as well, unless it is expressly stated otherwise (i.e. for backup purposes).

Any changes to the privacy policy of a website should be only done with sufficient prior notice and preferably be opt-in. The user must have the ability to close his account. In this context, it also very important for the user to be able to simply download all his data in a package.

It goes almost without saying that the servers must be well protected from hacker attacks, especially with this kind of sensitive data. A successful

attack would not only harm the users, but probably mark the end for the website. Ideally there should be a regular security audit that the users can review.

1.3 Conclusion

2 Implementation

2.1 Technologies

<http://www.okcupid.com/about/technology>

2.2 Basic functionality

2.2.1 User registration

2.2.2 Profile photo upload

2.2.3 Acquaintance selection

2.2.4 Notifications

2.2.5 Chat

2.3 Implementation in detail

2.3.1 Security

2.3.2 I18n

2.3.3 Geolocation

2.3.4 Graphical design

3 Conclusion

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