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VULNERABILITY ANALYSIS OF INFORMATION SYSTEME. O. Manyakova¹*Samara National Research University, Samara, Russian Federation*

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The purpose of this study is to analyze the concept of vulnerability [1], consider the main types of threats [2], and conduct a survey to determine the level of protection of personal data of the participants.

This paper investigates the results of the survey among the age groups of 15 - 25, 26 - 40 years. Most often respondents leave their personal data for online orders and registration on the websites of government agencies (Fig. 1).

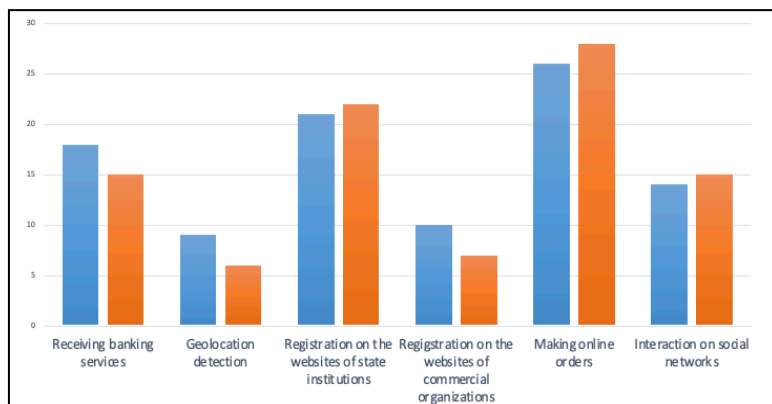


Figure 1 – For what purposes respondents enter personal data

According to the survey results, the following personal data are the most frequently left behind: e-mail address (36% of men and women); phone number (34% of men and 31% of women).

Talking about the degree of confidence of respondents in the security of their data, it is important to emphasize that the most people are not sure about the safety of their personal information.

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Most women consider the main reason for database leaks to be a poor level of site protection, while most men consider unscrupulous staff who sell personal data of customers. But there are also those respondents who believe that information leaks occur due to a combination of factors: technical and social (Fig. 2).

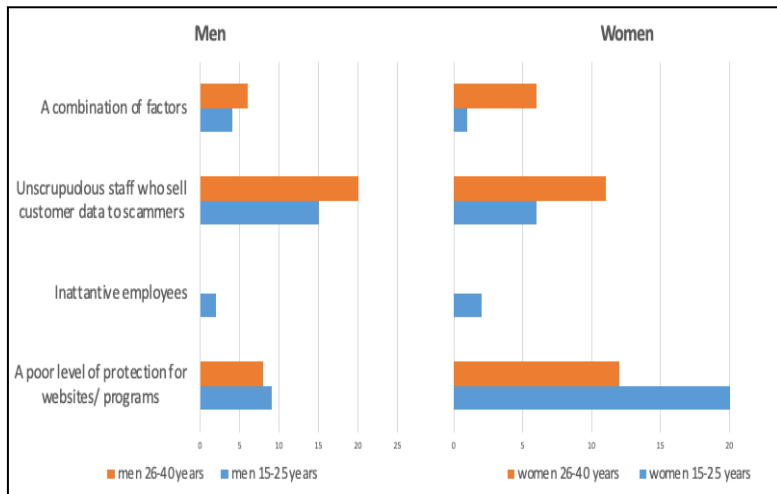


Figure 2 – The reason for leakage of personal data

It is important to note that users' doubts about the security of their personal data on websites highlight the need to improve data protection measures.

In conclusion, conducting vulnerability analysis of websites and applications is a key step to secure personal data and maintain user trust.

References

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