APPENDIX A: FRAMEWORK EVALUATION TOOL

SECTION A: Introduction

My name is [REMOVED]. I invite you to participate in this framework evaluation process. The purpose of this evaluation tool is to validate the proposed socio-technical information security (STInfoSec) framework for the design of secure and usable online information security applications.

The [REMOVED] study entitled "A Socio-Technical Framework for Secure and Usable Online Information Security Systems". The framework is specifically designed for online banking service as a case study, but is intended to be applicable to other general online information security applications, with appropriate adaptations tailored to those applications. The principles provided here for evaluation were first selected from previous studies in literature, then based on survey and interview findings from online banking users and banking personnel, respectively, the list has been refined in the context of online banking service. Checklist items for each principle were developed into this preliminary framework.

As an evaluator, you are requested to rate the importance of each of the proposed design principles and their respective checklist items with regard to their relevance in addressing security- and usability-related problems of the service. Specifically, these principles are envisaged to assist the design and, ultimately, improve the service. Your participation in this study is highly appreciated.

Please kindly complete and submit the evaluation survey to the researcher as soon as possible. The evaluation tool will take at most approximately 60 minutes to complete.

SECTION B: Consent form

Please note that by submitting this form, you agree that you have not been put under any pressure to participate in this evaluation exercise and are willingly participating in it. Also, please note that participation is voluntary and that you may withdraw at any time without negative consequences. Please understand that your answers to these questions will be used for academic purposes only; likewise, the findings of the evaluation will be used for research purposes only and may be published in academic publications. Your privacy will be protected by not printing any names, positions, or institutions in any such publication. The data will be stored in a password-protected computer and locked file cabinet at Unisa for a period of five years, after which it will be incinerated.

Please tick the checkbox to voluntarily provide consent to participate in the study.

I accept

SECTION C: Instructions

All questions marked with an asterisk (*) need to be answered. The information requested in Section D is for verification purposes only and responses will only be identified through a pseudo name/number, with no reference to any individual whatsoever.

Section E consists of the checklist items that system designers need to address. There are 12 usable security principles specifically tailored to online banking service. Each principle has a varying number of checklist items, ranging from five to nine, that help in understanding and applying the principle during the design of the user interface. We request your input in rating the importance of each of the checklist items to determine the usefulness of the principle as a whole. Each checklist item is rated based on a scale with the following four options: very important, important, moderately important, and not important. Evaluators are requested to provide additional information that they think might improve the framework at both a checklist and a principle level.

SECTION D: Biographical information

Please note that the information requested here is for verification purposes only; your responses will only be identified through a pseudo name/number, with no reference to your name whatsoever.

| Full name | | | |
|-----------------------------------|------|--------|--|
| Gender | Male | Female | |
| Age | | | |
| Qualification | | | |
| Occupation | | | |
| Job title | | | |
| Job specialisation | | | |
| Years in position | | | |
| IT/IS security experience | | | |
| Usability/UX experience | | | |
| Usable security experience | | | |
| Other experience (please specify) | | | |

SECTION E: Checklist items

Your assessment is based on the importance of the 12 principles and their respective checklist items in addressing security and usability aspects of system development. Additional comments are welcome at both a checklist item and a principle level.

Please indicate your choice by selecting one of the provided options as follows: 1 = Not important, 2 = Moderately important, 3 = Important, and 4 = Very important.

| 1 | Visibility: the system should visibly keep users informed about their security status |
|-----|---|
| 1.1 | Does the system show the user the progress status during a |
| | visible delay in response time? |
| 1.2 | Does the system visibly show the current selection/data input field? |
| 1.3 | Does the system clearly highlight the problem field with regard to error messages? |
| 1.4 | Is there some form of feedback for every security-related action? |
| 1.5 | Does the system visibly show the location of security-related options? |
| 1.6 | Is help information for assisting the user visible and easily accessible? |
| | Additional comments (optional) |
| | Learnability: the system should ensure that security |
| 2 | actions are easy to learn and remember |
| 2.1 | Does the system provide easy-to-learn training material? |
| 2.2 | Is there a quick-start guide to assist the user? |
| 2.3 | Are security and non-security operations easy to learn and use? |
| 2.4 | Have security items been grouped into logical zones, and have headings been used to distinguish between the zones? |
| 2.5 | Does the system present security and non-security information in a standardised format? |
| 2.6 | Are security options selected by default? |
| 2.7 | Does the user interface make it obvious which security items are currently selected? |
| 2.8 | Does the system protect users against making severe errors? |
| | Additional comments (optional) |
| | Errors: the system should provide users with detailed |
| | security error messages that they can understand and act |
| 3 | on |
| 3.1 | Are system error messages grammatically correct and accurate in stating the problem, with enough information for |

| | corrective measures/actions? |
|---------|--|
| 3.2 | Do security-related error messages inform the user of the |
| | severity of the error? |
| 3.3 | Are menu items arranged logically to prevent users from |
| | making serious errors? |
| 3.4 | Does the system warn users if they are about to make a |
| | potentially serious error? |
| 3.5 | Does the system allow users to recover from errors quickly |
| | and easily? |
| 3.6 | Do the error messages of the system not interfere with the |
| 27 | users work, whenever possible? |
| 5.7 | and possibly irrevocable actions? |
| | Additional comments (ontional) |
| | Availability: system services must be available all the |
| | time, with minimum down time, and have minimum |
| 4 | interruptions |
| 4.1 | Is the system always available, with minimum and non- |
| | interruptive down time? |
| 4.2 | Does the system make sure that all system functionalities are |
| | available at all times? |
| 4.3 | is scheduled down time communicated in advance and scheduled during off peak times? |
| 1 1 | Scheduled during off-peak unles? |
| 4.4 | interface? |
| 4.5 | Do updates to the system user interface not result in users |
| | having to learn the system all over again? |
| | Additional comments (optional) |
| | Satisfaction: the system should ensure that users have a |
| | good experience when using the system and its security |
| 5 | features |
| 5.1 | Is the actual process of using the system fun and enjoyable? |
| 5.2 | Are the most frequently used function keys in the most |
| 5.2 | accessible positions? |
| 5.5 | Do security-related prompts imply that the user is in control? |
| 5.4 | security options? |
| 5.5 | Do the security mechanisms of the system provide a sense of |
| | protection to the user? |
| 5.6 | Has colour been used specifically to draw attention, |
| | communicate organisation, indicate status changes, and |
| | establish relationships for security- and non-security-related |
| <i></i> | actions? |
| 5.7 | Can users personalise their own system, session, file, and screen defaults such as the landing page? |
| 5.8 | Does the system fulfil its claimed canabilities? |
| 5.0 | Does the system complete unambiguous partial input on a |
| 5.7 | data entry field? |
| | Additional comments (optional) |
| | Revocability: the system should allow users to revoke any |
| 6 | of their security actions |
| 6.1 | Do security options in menus make it obvious whether |
| | deselection is possible? |
| 6.2 | can users easily reverse their security and non-security |
| 63 | when prompts imply a pacassary security action are the |
| 0.5 | words in the message consistent with that action? |
| 6.4 | Has the system been designed so that keys with similar names |
| | do not perform opposite (and potentially dangerous) security |
| | actions? |
| 6.5 | Can users cancel operations in progress? |
| 6.6 | Are there 'undo' and 'redo' functions at the level of a single |
| | security action or for a complete group of security actions? |
| 6.7 | Does the system provide confirmation for actions that have |
| 60 | urasuc, possibly destructive consequences? |
| 0.8 | Additional comments (optional) |
| | Autuonai comments (optional) |

| 7 | Expressiveness: the system should guide users on security |
|--|---|
| 7 1 | Are ware initiations of accurity actions rather than |
| /.1 | Are users initiators of security actions rather than respondents? |
| 72 | Does the system correctly anticipate and prompt for the |
| 1.2 | user's probable next security-related activity? |
| 73 | By looking can the user tell the security state of the system |
| 7.5 | and the alternatives for security-related actions, if needed? |
| 74 | Does the system clearly state its security canabilities? |
| 7.5 | Does the system clearly state the users' responsibilities in |
| | terms of security actions? |
| | Additional comments (optional) |
| | User language: the system should use plain language that |
| 8 | users can understand with regard to security |
| 8.1 | Does the system allow the user to choose a preferred |
| | language? |
| 8.2 | Are security actions and objects named consistently across all |
| | prompts in the design? |
| 8.3 | Is security information accurate, complete, and |
| 0.4 | And a security exections stated in shore and simple language |
| 0.4 | where used? |
| 85 | If language selection is possible is the translation accurate |
| 0.5 | without errors? |
| | Additional comments (optional) |
| | User suitability: the system should provide options for |
| 9 | users with diverse levels of skill and experience in security |
| 9.1 | Is security information accurate, complete, and |
| | understandable to all types of system users (experienced and |
| | novice)? |
| 9.2 | Can users define and group their own synonyms for |
| | commands for easier access? |
| 9.3 | Can users navigate forwards and backwards within |
| | operations? |
| 0.4 | |
| 9.4 | Does the system avoid the use of security and privacy jargon? |
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| 11.3 | Does the system employ encryption techniques to prevent unauthorised disclosure of, and access to, information in storage and transmission? |
|------|---|
| 11.4 | Does the system enforce a limit on consecutive invalid access attempts by a user during a period of time? |
| 11.5 | Does the system implement an appropriate time-out logoff period? |
| 11.6 | Does the system encrypt passwords in storage and in transmission? |
| 11.7 | Does the system enforce password restrictions, such as complexity, length, expiry period, reuse, etc.? |
| 11.8 | Are system password requirements complex enough to avoid simple password-cracking attacks? |
| | Additional comments (optional) |
| | Privacy: the system should protect user information |
| 12 | against unauthorised access by third parties |
| 12.1 | Does the system ask for consent before collecting personal information? |
| 12.2 | Are the statements asking for user consent written in clear and simple language that the user understands? |
| 12.3 | Does the system clearly state what personal information is collected and for what purposes it will be used? |
| 12.4 | Does the system require users to confirm statements indicating that they understand the conditions of access? |
| 12.5 | Does the system ask for permission before distributing personal information to third parties? |
| 12.6 | Do the personal information collection and storage mechanisms comply with the data protection regulations of the country? |
| 12.7 | Can protected or confidential areas be accessed with certain passwords? |
| | |

Thank you very much for your participation Thank you once again for your participation and please feel free to contact me or the study promoters with any questions on the contact details below:

[NAMES REMOVED]