UNIVERSITY OF TARTU
Institute of Computer Science
MSc. In Software Engineering

Amit Kumar Singh

# *An exploration into Business Process Testing (BPT) inside a financial institution.*

Master's Thesis (30 ECTS)

Supervisors:

Dr. Dietmar Alfred Paul Kurt Pfahl,

Reet Jääger

**An exploration into Business Process Testing (BPT) inside a financial institution**

**Abstract:**

Business Process Testing (BPT) is a concept that supports software testing processes as per business requirements; aimed to decrease time consumption, task complexity and efforts in a software development lifecycle. BPT is an end to end testing technique which helps to check the readiness of the software application from the customer's as well as business perspective.

**Keywords:**

software testing, business components testing, reusability, test case generation, automation testing frameworks, interviews, waterfall methodology, 3-tier architecture, systematic mapping study

**CERCS:** P170

**Äriprotsesside testimise (BPT) uurimine finantsasutuse sees**

**Abstraktne:**

Äriprotsesside testimine (BPT) on kontseptsioon, mis toetab tarkvara testimise protsesse vastavalt ärinõuetele; mille eesmärk on vähendada ajakulu, ülesannete keerukust ja jõupingutusi tarkvaraarenduse elutsüklis. BPT on otsast lõpuni testimise tehnika, mis aitab tarkvararakenduse valmisolekut kontrollida nii kliendi kui ka ettevõtte vaatenurgast.

**Märksõnad:**

tarkvara testimine, ärikomponentide testimine, korduvkasutatavus, testjuhtumite loomine, automaatika testimise raamistikud, intervjuud, kose metoodika, kolmetasandiline arhitektuur, süstemaatiline kaardistamise uuring

**CERCS:** P170

**Non-exclusive licence to reproduce thesis**

I, Amit Kumar Singh,

(*author's name*)

1. herewith grant the University of Tartu a free permit (non-exclusive licence) to

reproduce, for the purpose of preservation, including for the purpose of preservation in the DSpace digital archives until the expiry of the term of copyright,

*An exploration into Business Process Testing (BPT) inside a financial institution*,

(*title of thesis*)

supervised by Dr. Dietmar Alfred Paul Kurt Pfahl, Reet Jääger.

(*supervisor's name*)

Publication of the thesis is not allowed.

2. I am aware of the fact that the author retains the right specified in p. 1.

3. This is to certify that granting the non-exclusive licence does not infringe other persons' intellectual property rights or rights arising from the personal data protection legislation.

*Amit Kumar Singh*

**03/08/2021**