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REVISION HISTORY

Date	Version	Description	Author
17.10.2019	1.0	Assignment of the parts to members and moved everything to Google Docs.	Kerem Güre
22.10.2019	1.1	Added a UML Deployment Diagram	Cenker Karaörs
22.10.2019	1.2	Added Hardware preparation description.	Barış Özbaş
23.10.2019	1.3	Added some test cases	Cenker Karaörs
23.10.2019	1.4	Updated and added some test cases and updated the References	Kerem Güre
23.10.2019	1.5	Updated and added some test cases	Denizcan Özpınar, Emre Ay
23.10.2019	1.6	Did minor fixes for test tables and general organization	Kerem Güre

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1 Introduction

1.1 Document overview

This document is the software test plan of the BPP software development project. It contains the description of tests.

1.2 References

#	Document Identifier	Document Title
1	BPP-SDP	BPP Software Development Plan
2	BPP-SRS-1	BPP Software Requirements Specifications

1.3 Conventions

Each test case will be presented in a table format as shown below:

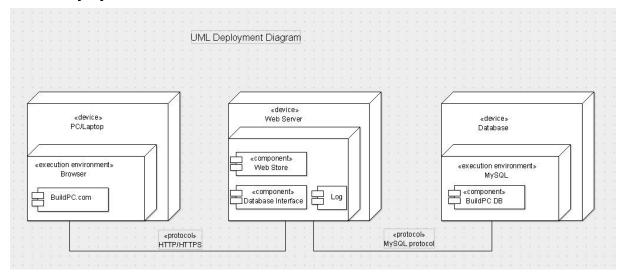
Test ID	<id of="" test="" the=""></id>	
Test description		
Verified	<id numbers="" of="" requirements="" td="" that<=""><td>Verification method: <i,a,d,t></i,a,d,t></td></id>	Verification method: <i,a,d,t></i,a,d,t>
Requirement	are to be verified with this test.>	
Initial conditions	<the before="" of="" software="" state="" test=""></the>	
Tests inputs	<pre><input and="" any="" data="" files="" from="" if="" input="" location,="" name,="" test="" tool,=""/></pre>	
Data collection	<recording and="" of<="" post-processing="" td=""><td></td></recording>	
actions	output data, if any >	
Tests outputs	<0utput data files, if any>	
Assumptions	If any, may be limited access to a	
and constraints	tool, license	
Expected results	dist of expected results>	<special be="" by="" criteria="" met="" p="" the<="" to=""></special>
and criteria		result, if any>
Test procedure		
Step number	Operator actions	Expected result and evaluation criteria
1	<actions by="" listed="" row=""></actions>	<expectation action="" after="" each="" if<="" td=""></expectation>
		any>
2		

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2 Tests preparations

This section contains tasks and recommendations before executing tests.

2.1 Hardware preparation



- Apache web server is configured.
- MySQL server is used between the Apache web server and database connection.
- For database management, PHPmyAdmin is used.

2.2 Software preparation

- Junit Testing Tool
- PHPunit Testing Tool
- Browser

The applications named above are to be used for testing the system.

2.3 Safety, security and privacy precautions

SQL Injection is a security concern. The precautions in place are PreparedStatements, DB Triggers.

Password and CC information is a privacy concern. The precautions in place are Bcrypt password hashing and CC hash and salting.

3 Tests descriptions

Test cases are organized in chronological order of execution.

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3.1 WebApp Tests

Test ID	T-SRS-REQ-001	
Test desc.	Verify that the user can successfully	
	register	
Verif. Req.	SRS-REQ-001	Demonstration
Init. Cond.	BuildPC web application is started and	
	idle.	
Tests inputs	Username, password, full name,	
	phone, address	
Data collection	N/A	
Tests outputs	Registration complete message	
Assum & constr	The user enters strings with the utf-8	
	format	
Expected results	The database must contain user and	
and criteria	its data	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Type following URL: buildpc.software	Confirm the web page opens
	to browser	
2	Click the register button	The browser must redirect to the
		registration page
3	Enter username, password, full name,	If all fields are filled submit button
	phone number, address	must be available
4	Click submit button	Registration complete message
		must be displayed

Test ID	T-SRS-REQ-002	
Test desc.	Verify that the user can add/remove	
	an item to/from the basket.	
Verif. Req.	SRS-REQ-002	Demonstration
Init. Cond.	BuildPC web application is started and	
	idle.	
	The user has an account at the BuilPC	
	site.	
Tests inputs	Add to/Remove from basket button	
	click.	
Data collection	N/A	
Tests outputs	The quantity of that item in the basket.	
Assum & constr	BuildPC site has some stock for any	
	amount.	
Expected results	Users must see the updated	
and criteria	(add/remove item) basket.	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Select desired items	Confirm items are selectable

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2	Enter a valid amount	The amount must equal or less than the stock of the item
3	Click add to/remove from basket button	Items must be updated in the basket

Test ID	T-SRS-REQ-003	
Test desc.	Verify that the user can purchase	
	basket	
Verif. Req.	SRS-REQ-003	Demonstration
Init. Cond.	BuildPC web application is started and	
	idle.	
	The user has an account at the BuilPC	
	site.	
Tests inputs	Credit card information	
Data collection	N/A	
Tests outputs	Purchase complete message	
Assum & constr	The user has some items in the basket.	
Expected results	Purchase completed message	
and criteria	displayed and stock is updated at DB.	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Click to my basket button	Confirm that basket is available
2	Enter valid CC information.	Check the validity of the CC
		number using the Luhn Algorithm.
3	Click purchase button	Purchase complete message must
		be displayed and the database
		must add users basket to history

Test ID	T-SRS-REQ-004	
Test desc.	Verify that the user can see their	
	history of bought products	
Verif. Req.	SRS-REQ-004	Demonstration
Init. Cond.	BuildPC web application is started and	
	idle.	
	The user has an account at the BuilPC	
	site.	
Tests inputs	N/A	
Data collection	N/A	
Tests outputs	History page	
Assum & constr	The user has already purchased some	
	items from the website.	
Expected results	Purchase completed message	
and criteria	displayed and stock is updated at DB.	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Click to my history button	The browser must redirect to
		purchased items' history.

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Test ID	T-SRS-REQ-005	
Test desc.	Verify that users can update their	
	information	
Verif. Req.	SRS-REQ-005	Demonstration
Init. Cond.	BuildPC web application is started and	
	idle.	
	The user has an account at the BuilPC	
	site.	
Tests inputs	password, full name, phone, address	
Data collection	Full Name, Phone, Address, hashed	
	password	
Tests outputs	update complete message	
Assum & constr	The user enters strings with the utf-8	
	format	
	Usernames cannot be changed.	
Expected results	The database must contain users' new	
and criteria	information.	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Click my profile button	Confirm that users can preview
		their current information
2	Change the desired fields.	New information must be
		displayed
3	Click submit button	The database must update the
		related columns.

Test ID	T-SRS-REQ-006	
Test desc.	Verify that users can see all available	
	products on the website	
Verif. Req.	SRS-REQ-006	Demonstration
Init. Cond.	BuildPC web application is started and	
	idle.	
Tests inputs	N/A	
Data collection	N/A	
Tests outputs	Updated homepage.	
Assum & constr	The website has some items	
Expected results	Homepage updates itself with item	
and criteria	blocks(name,photo,desc,price).	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Type the following URL:	Confirm the website is accessible
	buildpc.software to browser	and shows items on the homepage
2	Select a category	All items in that category must be
		displayed

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3.2 PBMT Tests

Test ID	T-SRS-PBMT-001	
Test desc.	Verify that the program can add items.	
Verif. Req.	SRS-BPP-PBMT-001	Demonstration
Init. Cond.	PcBuild Management Tool is started and idle.	
Tests inputs	Item name, description, stock, category, price, picture.	
Data collection	Item name, description, stock, category, price, picture.	
Tests outputs	Display message that shows transaction is completed.	
Assum & constr	All fields are filled, the Item name is unique.	
Expected results	Items are successfully added to the	
and criteria	database.	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Open the PcBuild Management Tool.	Confirm the tool is available.
2	Click the item manager button.	The program must redirect to the Item management page.
3	Click the add item button.	Program must redirect to add item window.
4	Enter item name, description, stock, category, price, picture	If all fields are filled submit button must be available.
5	Click submit button	Item must be successfully inserted into the database.

Test ID	T-SRS-PBMT-002	
Test desc.	Verify that users can see all registered	
	users.	
Verif. Req.	SRS-BPP-PBMT-002	Test
Init. Cond.	PcBuild Management Tool is started	
	and idle.	
Tests inputs	N/A	
Data collection	N/A	
Tests outputs	List of all users.	
Assum & constr	The database has some users.	
	The operation completes under 2	
	seconds.	
Expected results	View all registered users.	
and criteria		
Test procedure		
Step number	Operator actions	Expected result and eval crit

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1	Open the PcBuild Management Tool	Confirm the tool is available.
2	Click the list users button.	The program must redirect to the
		users' list page.

Test ID	T-SRS-PBMT-003	
Test desc.	Verify that all items are listed	
Verif. Req.	SRS-BPP-PBMT-003	Test
Init. Cond.	PcBuild Management Tool is started	
	and idle.	
Tests inputs	N/A	
Data collection	N/A	
Tests outputs	Listed items	
Assum & constr	The database has some items	
Expected results	List of items is displayed	
and criteria	The operation completes under 2	
	seconds.	
Test procedure		
Step number	Operator actions	Expected result and eval crit
1	Open the PcBuild Management Tool	Confirm the tool is available.
2	Click list items button	The program must redirect to the
		items list page