Requirements Document - future EZWallet

Version: V2 - description of EZWallet in FUTURE form

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Stakeholders

Stakeholder name	Description
User	User of the application
Developer	Person who develops and maintains the application
Admin	User with higher privileges

Context Diagram and interfaces

Context Diagram

Interfaces

Actor	Logical Interface	Physical Interface
User	GUI	PC
Admin	GUI	PC

Functional and non functional requirements

Functional Requirements

ID	Name	Description
FR1	Manage users	----------
FR11	register	create a new user
FR12	login	authorize access for a given user
FR13	logout	stop authorization for a given user
FR14	registerAdmin	create a new Admin
FR15	getUsers	return all users
FR16	getUser	return info about a specific user
FR17	deleteUser	cancel a user
FR2	Manage groups	----------
FR21	createGroup	create a new group

ID	Name	Description
FR22	getGroups	return all groups
FR23	getGroup	return info about a specific group
FR24	addToGroup	add many users to a given group
FR26	removeFromGroup	remove many users from a given group
FR28	deleteGroup	cancel a group, users members of the group remain unchanged
FR3	Manage transactions	----------
FR31	createTransaction	create a new transaction
FR32	getAllTransactions	return all transactions (by all users)
FR33	getTransactionsByUser	return transactions of a given user. transactions may be filtered by date, by period, by max / min amount
FR34	getTransactionsByUserByCategory	return transactions of a given user and a given category
FR35	getTransactionsByGroup	return all transactions of all users of a given group
FR36	getTransactionsByGroupByCategory	return all transactions of all users of a given group, filtered by a given category
FR37	deleteTransaction	delete a given transaction
FR38	deleteTransactions	delete many transactions
FR4	Manage categories	----------
FR41	createCategory	create a new category
FR42	updateCategory	modify existing category
FR43	deleteCategory	delete a given category
FR44	getCategories	list all categories

Access rights

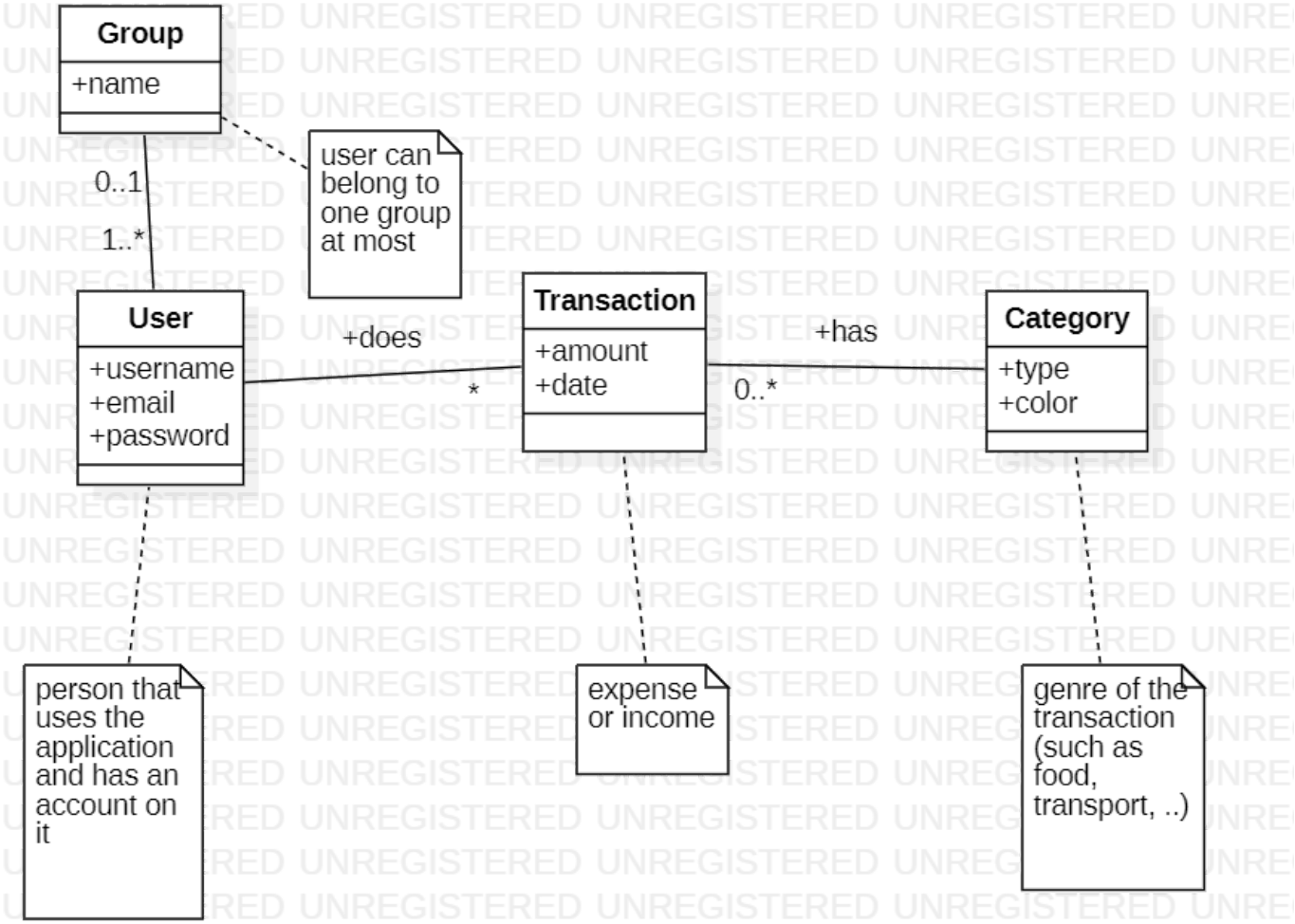
Function	User	Admin
register	X	X
login	X	X
logout	X	X
registerAdmin		X
getUsers		X
getUser	X (only his/her information)	X (any user)

Function	User	Admin
deleteUser		X
createGroup	X	X
getGroups		X
getGroup	X (only own group)	X (any group)
addToGroup	X (only own group)	X (any group)
removeFromGroup	X (only own group)	X (any group)
deleteGroup		X (any group)
createTransaction	X	X
getAllTransactions		X
getTransactionsByUser	X (only his/her transactions)	X (any user's transactions)
getTransactionsByUserByCategory	X (only his/her transactions)	X (any user's transactions)
getTransactionsByGroup	X (only own group's transactions)	X (any group's transactions)
getTransactionsByGroupByCategory	X (only own group's transactions)	X (any group's transactions)
deleteTransaction	X	X
deleteTransactions		X
createCategory		X
updateCategory		X
deleteCategory		X
getCategories	X	X

Non Functional Requirements

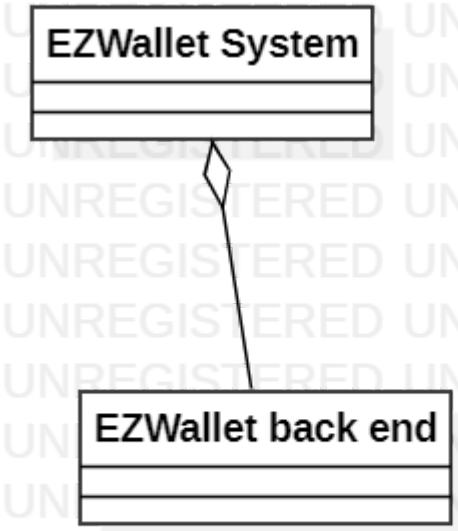
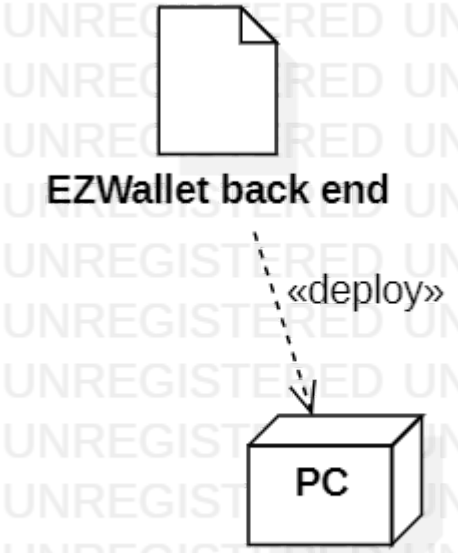
ID	Type (efficiency, reliability, ..)	Description	Refers to
NFR1	Efficiency	The application should have a response time lower than 0.5 sec.	FR1,FR2,FR3,FR4,FR5
NFR2	Usability	At least 95% of average users (no computer professionals with more than 1 year of experience of using PC) can use the application within 1 hour, with no training	FR1,FR2,FR3,FR4,FR5

Glossary



System Design

There is only one component in the system. A client would be needed, but it is not available in V2.



Deployment Diagram