

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/269105794>

Fundamentals of System Analysis & Design

Book · November 2014

DOI: 10.13140/2.1.1469.7280

CITATIONS

0

READS

54,699

1 author:



[Alireza Salehi Nejad](#)

University of Tehran

71 PUBLICATIONS 336 CITATIONS

[SEE PROFILE](#)

Some of the authors of this publication are also working on these related projects:



Political Communication [View project](#)



EU & Brexit [View project](#)

This book consists of two analytic papers. The first chapter of this book entitled "System Analysis, Design and Construction" reviews studies conducted on information system. As a case study it evaluates a system for schools and departments which assesses students through a number of assessment components. It demonstrates a practical design in decision-making at the Pass/Fail boundary, the mathematical fundamentals in the application of these policies and inherent in marks. It also proposes processes involved in error-estimation by the raters. The second chapter of the book entitled "Easy Reading Online Bookstore System" discusses development of an online bookstore, which includes various necessary components including shopping mechanism, purchasing statistics, and management tools. The paper concentrates on the design of the data base and its integration with the implemented system.

Fundamentals of System Analysis & Design

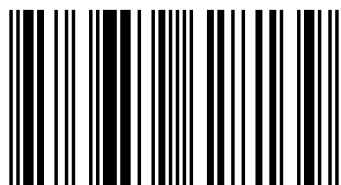


Alireza (Arash) Salehi Nejad

Fundamentals of System Analysis & Design



Alireza Salehi Nejad, also known as his pseudonym Arash Titan, is a Persian-Turkish researcher and businessperson - the founder and executive director of Titan Inc. Arash is an alumnus of Asia Pacific University and Staffordshire University. He graduated from Shahid Chamran University and is currently a postgraduate student at University of Tehran.



978-3-659-62813-9

Salehi Nejad

LAP
LAMBERT
Academic Publishing

Alireza (Arash) Salehi Nejad

Fundamentals of System Analysis & Design

Alireza (Arash) Salehi Nejad

Fundamentals of System Analysis & Design

LAP LAMBERT Academic Publishing

Impressum / Imprint

Bibliografische Information der Deutschen Nationalbibliothek: Die Deutsche Nationalbibliothek verzeichnet diese Publikation in der Deutschen Nationalbibliografie; detaillierte bibliografische Daten sind im Internet über <http://dnb.d-nb.de> abrufbar.

Alle in diesem Buch genannten Marken und Produktnamen unterliegen warenzeichen-, marken- oder patentrechtlichem Schutz bzw. sind Warenzeichen oder eingetragene Warenzeichen der jeweiligen Inhaber. Die Wiedergabe von Marken, Produktnamen, Gebrauchsnamen, Handelsnamen, Warenbezeichnungen u.s.w. in diesem Werk berechtigt auch ohne besondere Kennzeichnung nicht zu der Annahme, dass solche Namen im Sinne der Warenzeichen- und Markenschutzgesetzgebung als frei zu betrachten wären und daher von jedermann benutzt werden dürften.

Bibliographic information published by the Deutsche Nationalbibliothek: The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at <http://dnb.d-nb.de>.

Any brand names and product names mentioned in this book are subject to trademark, brand or patent protection and are trademarks or registered trademarks of their respective holders. The use of brand names, product names, common names, trade names, product descriptions etc. even without a particular marking in this works is in no way to be construed to mean that such names may be regarded as unrestricted in respect of trademark and brand protection legislation and could thus be used by anyone.

Coverbild / Cover image: www.ingimage.com

Verlag / Publisher:

LAP LAMBERT Academic Publishing

ist ein Imprint der / is a trademark of

OmniScriptum GmbH & Co. KG

Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Deutschland / Germany

Email: info@lap-publishing.com

Herstellung: siehe letzte Seite /

Printed at: see last page

ISBN: 978-3-659-62813-9

Copyright © 2014 OmniScriptum GmbH & Co. KG

Alle Rechte vorbehalten. / All rights reserved. Saarbrücken 2014

Table of contents:

Table of contents:.....	iv
Acknowledgments:.....	1
Chapter I.....	2
Business System Analysis, Design and Construction.....	2
Abstract:	3
Introduction:	4
System analysis:	5
System analysis and design:.....	6
Systems analysis, design, and programming:	8
Problem definition:	10
Problem identification:	11
Additional Concept:	13
Attendance Requirements.....	13
Steps to implement the solution:	14
Using Spreadsheets to Keep Track of Students' Grades	15
Setting up the grade sheet.....	15
Converting letter grades to numbers	15
Converting numbers to letter grades	16
Weighted grades	17
Missing grades and averages	18
Dropping lowest grades.....	19
Additional Recommendation:	21
Feasibility:	22
Data Flow Diagram:	24
Conclusion:	26
Bibliography:	27

Chapter II.....	29
Easy Reading Online Bookstore System.....	29
Introduction:	30
Project Proposal:	31
Aim:	31
System Overview:	32
Assumption:	35
Database Assumptions:	35
System Assumptions:	36
Benefits:.....	37
Development of Approach:	38
Entity Relationship Diagrams (ERD):	39
Logic Steps:	40
Normalization:	41
Unnormalized Data:	41
First Normal Form:	42
Explanation:	45
Explanation:	47
Second Normal Form:	48
3 rd Normal Form:	51
Explanation:	51
Relational Table Structure:	54
tblCSP:	55
tblOrder:	55
tblPurchases:	56
tblGame:	56
tblDVD:	57
tblMusic:	57
tblBook:	58
Development:	59

Fundamentals of System Analysis & Design

Site Map:	59
Story Board:	60
Home Page:	60
Careers Page:	61
About the Company Page:	62
Contact us Page:	63
Registration Page:	64
View Item Details Page:	65
Add to Cart Page:	66
View Cart Page:	67
Customer Information Page:	68
Purchasing Page:	69
Purchase Ticket Page:	70
Customer Service Personal Information Page:	71
Customer Service Personal Orders Page:	72
Customer Service Personal Edit Orders Page:	73
Management Report 1 Page:	74
Management Report 2 Page:	75
Database Code Structure:	76
Data Definition Language:	76
Accounts Table:	76
Customers Table:	77
Customer Service Personal Table:	78
Orders Table:	79
Purchases Table:	80
Games Table:	81
DVD Table:	82
Music Table:	83
Books Table:	84
Data Manipulation Language:	85

Alireza (Arash) Salehi Nejad

First Report:.....85

Second Report:.....86

Testing:87

Test Plan:88

Testing Table:89

Conclusion:90

Bibliography:91

More Books!



yes **I want morebooks!**

Buy your books fast and straightforward online - at one of the world's fastest growing online book stores! Environmentally sound due to Print-on-Demand technologies.

Buy your books online at
www.get-morebooks.com

Kaufen Sie Ihre Bücher schnell und unkompliziert online – auf einer der am schnellsten wachsenden Buchhandelsplattformen weltweit! Dank Print-On-Demand umwelt- und ressourcenschonend produziert.

Bücher schneller online kaufen
www.morebooks.de