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Developing Smarter Homes for Elderly and Disabled People

*A thesis submitted for the Partial fulfillment of
Master degree (M.Sc.)
In Architecture*

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Title of Thesis:

Developing Smarter Homes for Elderly and Disabled People

Key Words:

Smart Homes; Intelligent design; Elderly and Disabled Homes; Smart Guidelines.

Summary:

The Aim of this research is to propose guideline for the smart homes and highlight the needs of different types of disability or elderly requirements inside homes and what solution or application suit the case of the required person.

The research also focuses on how architects should design homes that can suite elderly or disabled as all people will face elderly and some might have body disabilities in the recent future by following the international and locals building codes, by providing good design spaces, and by the help of smart technology and systems.

Integration between design solutions and smart applications and systems was made to show what kind of design solution or smart applications suit each type of disability and elderly people.

Statement

This thesis is submitted as a partial fulfillment of Master of Science degree in engineering, faculty of engineering, Ain Shams University.

The author carried out the work included in this thesis and no part of it has been submitted for a degree or qualifications at any other scientific entry.

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Table of Content

<i>Abstract</i>	xx
<i>Objective:</i>	xxi
<i>Thesis Hypothesis</i>	xxi
<i>Methodology</i>	xxii
Chapter One:	1
Introduction to Intelligent Buildings	1
<i>Preface</i>	<i>1</i>
<i>1-1 Definition of intelligent architecture</i>	<i>1</i>
<i>1-1-1 Intelligent Design</i>	<i>1</i>
<i>1-1-2 Appropriate use of intelligent technology</i>	<i>2</i>
<i>1-1-3 Intelligent use and maintenance of buildings</i>	<i>2</i>
<i>1-2 Definition of intelligent Building</i>	<i>2</i>
<i>1-3 Development stages of Intelligent buildings:</i>	<i>3</i>
<i>1-3-1 First Generation : Automation</i>	<i>3</i>
<i>1-3-2 Second Generation : Automation + Virtual Reality</i>	<i>4</i>
<i>1-3-3 Third Generation : Automation + Virtual Reality + Sustainability</i> 4	
<i>1-4 Reasons for Intelligent buildings:</i>	<i>5</i>
<i>1-5 Characteristics of Intelligent Buildings (IB):</i>	<i>6</i>
<i>1-6 Natural Intelligence vs Artificial Intelligence</i>	<i>6</i>
<i>1-7 Systems of Smart Homes</i>	<i>7</i>
<i>1-7-1 Integrated Building Management System (IBMS)</i>	<i>7</i>
<i>1-7-2 Facility Management Systems (FMS)</i>	<i>8</i>
<i>1-7-3 Intelligent Telecom and Data System (ITS)</i>	<i>8</i>

Table of Content

1-7-4	Addressable fire Detection and Alarm System (AFA)	9
1-7-5	Heating, Ventilation and Air-conditioning Control (HVAC)	10
1-7-6	Digital Addressable Lighting Control System (DALI)	11
1-8	Benefits of designing intelligent buildings.....	11
1-8-1	Enhance Efficiency of Building Operation and Energy consumption	12
1-8-2	Reduce Building Running Cost.....	12
1-8-3	Increase Confidence in System and its Stability.....	13
1-8-4	Increase Building user comfort and their productivity	13
1-9	Benefits of designing intelligent homes for elderly and disabled	14
1-10	Smart Homes aspects for Spaces and Equipment.....	15
1-10-1	Smart Spaces Orientation regarding enviroment.....	15
1-10-2	Smart Furniture Elements	16
1-11	Smart Systems and Equipment.....	17
1-11-1	Smart Safety Devices.....	17
1-12	Smart systems of homes	21
1-12-1	Light Control Systems.....	21
1-12-2	Heating, Ventilation and Air Conditioning (HVAC) systems ...	22
1-12-3	Smart Kitchen and Bathrooms.....	23
1-13	Summery and Conclusions.....	25
Chapter Two: Elderly and Disabled Global Problem and Statistics ...		26
Preface	26
2-1	World Ageing Problem	26
2-1-1	Levels and Trends in Population Ageing.....	27
2-1-2	Demographic characteristics of the older population.....	33

Table of Content

2-2 Disability global problem	34
2-2-1 Introduction:.....	35
2-2-2 Diverse experiences.....	35
2-3 Types of Disabilities	36
2-3-1 Vision Impairment	36
2-3-2 Deaf or hard of hearing.....	37
2-3-3 Mental health conditions	37
2-3-4 Intellectual disability.....	38
2-3-5 Acquired brain injury (ABI)	38
2-3-6 Autism spectrum disorder.....	38
2-3-7 Physical disability	38
2-4 The disabling barriers	40
2-4-1 Lack of accessibility	40
2-4-2 Lack of consultation and involvement	40
2-4-3 Lack of data and evidence	40
2-5 Summary and Conclusions.....	41
Chapter Three: Elderly and disabled design solutions and Applications.....	42
Preface	42
3-1 Smart Home and Social Care	42
3-2 The Smart Medical Home	43
3-3 The Seven Principles of Universal Design.....	44
3-3-1 What is Universal Design.....	44
3-3-2 The First Principle (Equitable Use).....	45
3-3-3 Principle 2: Flexibility in Use	46

Table of Content

3-3-4	<i>Principle 3: Simple and Intuitive Use.....</i>	<i>46</i>
3-3-5	<i>Principle 4: Perceptible Information</i>	<i>47</i>
3-3-6	<i>Principle 5: Tolerance for Error.....</i>	<i>48</i>
3-3-7	<i>Principle 6: Low Physical Effort.....</i>	<i>48</i>
3-3-8	<i>Principle 7: Size and Space for Approach and Use</i>	<i>49</i>
3-4	<i>Smart Homes Designs & Applications.....</i>	<i>51</i>
3-4-1	<i>House Entrances.....</i>	<i>52</i>
3-4-2	<i>Living Spaces (Reception & Living rooms).....</i>	<i>57</i>
3-4-3	<i>Corridor and Hallways.....</i>	<i>66</i>
3-4-4	<i>Kitchens.....</i>	<i>67</i>
4-	<i>Smart Kitchen appliances.....</i>	<i>72</i>
3-4-5	<i>Bedrooms.....</i>	<i>73</i>
3-4-6	<i>Bathrooms</i>	<i>76</i>
3-4-7	<i>Vertical Transportation (Stairs and Lifts).....</i>	<i>87</i>
3-5	<i>Analysis between suitable solutions and applications for Elderly & Disabled</i>	<i>91</i>
3-5-1	<i>Home Entrances</i>	<i>91</i>
3-5-2	<i>Living Spaces (reception & living rooms).....</i>	<i>92</i>
3-5-3	<i>Corridors and hallways.....</i>	<i>93</i>
3-5-4	<i>Kitchens.....</i>	<i>94</i>
3-5-5	<i>Bedrooms.....</i>	<i>95</i>
3-5-6	<i>Bathrooms</i>	<i>96</i>
3-5-7	<i>Vertical Transportation (Stairs and Lifts).....</i>	<i>97</i>
3-6	<i>Evaluation Criteria Table for elderly and disabled people needs</i>	<i>98</i>
3-7	<i>Summary and conclusion.....</i>	<i>100</i>

Table of Content

Chapter Four: Smart Homes Analysis102

<i>Preface</i>	102
<i>4-1 The Objective for the Analytical Study</i>	102
<i>4-2 Basis of selection for the case study</i>	102
<i>4-2-1 Having a Building Management System (BMS)</i>	102
<i>4-2-2 Providing the home with the minimum requirements of technology and smart devices</i>	103
<i>4-3 Michelle Kaufmann (MKSolaire) Smart Home</i>	103
<i>4-4 mkSolaire - Wired, Contemporary and Eco-Friendly Urban Living</i>	104
<i>4-4-1 Smart Design</i>	104
<i>4-4-2 Material Efficiency</i>	105
<i>4-4-3 Energy Efficiency</i>	105
<i>4-4-4 Water Efficiency</i>	105
<i>4-4-5 Health Environment</i>	105
<i>4-1 Analysis of different spaces of mkSolaire home</i>	107
<i>4-1-1 Home Entrance:</i>	107
<i>4-1-1 Living Spaces (Living, Dinning and Lounge)</i>	109
<i>4-1-2 Kitchens</i>	113
<i>4-1-3 Mechanical Room</i>	115
<i>4-1-4 Bedrooms</i>	117
<i>4-1-5 Bathrooms</i>	120
<i>4-1-6 Vertical Transportation (Stair)</i>	123
<i>4-1-7 Miscellaneous details in MK Solaire Home</i>	124
<i>4-2 Analysis for the Mk Solaire home for meeting elderly and disabled people needs</i>	126