

S.O.S

APPLICATION

American Military
University



S.O.S

COMPUTER SCIENCE:
INTERMEDIATE
CAPSTONE

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1	9/1/2021	INITIAL DRAFT FOR WEEK 4 ASSIGNMENT

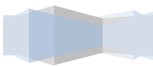


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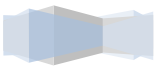
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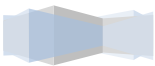


CHAPTER 1: INTRODUCTION

SECTION 1.1: PURPOSE OF THE MANUAL

SECTION 1.2: HOW TO USE THIS MANUAL

SECTION 1.3: WHO IS THIS MANUEL FOR



INTRODUCTIONS

1.1 | THIS USER HANDBOOK OFFERS A THOROUGH TUTORIAL ON HOW TO MAKE BEST USE OF THE S.O.S ALERT APPLICATION. IT COVERS THE TECHNICAL REQUIREMENTS, FUNCTIONALITY, AND SAFETY PROCEDURES OF THE PROGRAM SO THAT USERS MAY RUN IT EFFECTIVELY AND SECURELY UNDER GREAT DEMAND.

1.2 | BEFORE USING THE S.O.S ALERT APP, USERS SHOULD FAMILIARIZE THEMSELVES WITH ALL PARTS OF THIS HANDBOOK, NOTABLY THE SECTIONS ON SAFETY PRESCRIPTIONS AND THE PRODUCT DESCRIPTION. ADDITIONALLY, NO ACCESS TO THE APPLICATION WILL BE MADE WITHOUT AUTHORIZATION FROM THE SUPERVISORS. THIS ALLOWS ACCES TO THE APP AT START. THIS WILL GUARANTEE ACCURATE AND EFFICIENT USE OF THE SOFTWARE UNDER EMERGENCY CONDITIONS.

1.3 | CHILDREN, TEACHERS, MALL WORKERS, AND THE GENERAL PUBLIC SHOULD FIND THIS HANDBOOK USEFUL.



CHAPTER 2.....TITLE: GENERAL SAFETY
PRESCRIPTIONS



CHAPTER 2: GENERAL SAFETY PRESCRIPTIONS

SECTION 2.1: DATA PRIVACY AND SECURITY

SECTION 2.2: EMERGENCY SITUATIONS

SECTION 2.3: USER ACCOUNTABILITY



GENERAL SAFETY PRESCRIPTIONS

2.1| SENSITIVE MATERIAL HANDLED BY THE S.O.S ALERT APP INCLUDES USER LOCATIONS AND DESCRIPTIONS OF ACTIVE SHOOTER OCCURRENCES. MAINTAINING THE PRIVACY OF THIS MATERIAL IS REALLY VITAL. COMPLYING WITH GOVERNMENT CRITERIA FOR INFORMATION SECURITY, THE SOFTWARE PROTECTS ALL SENT DATA USING AES-256 ENCRYPTION.

2.3| THE S.O.S ALERT APP IS MEANT FOR USE IN CIRCUMSTANCES POSING A LIFE DANGER. USERS SHOULD BE AWARE THAT OTHER EMERGENCY SERVICES AS WELL AS LAW ENFORCEMENT WILL GET THE MATERIAL THEY PROVIDE STRAIGHT FORWARDLY. ABUSE OF THE APP COULD LEAD TO LEGAL ACTION.

2.3| THE CORRECTNESS OF THE MATERIAL USERS ENTER INTO THE APP IS THEIR RESPONSIBILITY AND ALLOWANCE OF ACCESS CODE TO THE APPLICATION IS THE SUPERVISORS WRITTEN CONSENT. KNOWINGLY FALSE REPORTS MADE WITH THE APPLICATION MAY BE PROSECUTED LEGALLY AND CAUSE EMERGENCY PERSONNEL TO BE DIVERTED FROM REAL DANGERS.



CHAPTER 3.....TITLE: DESCRIPTION OF THE
PRODUCT



CHAPTER 3: DESCRIPTION OF THE PRODUCT

SECTION 3.1: OVERVIEW

SECTION 3.2: KEY FEATURES

SECTION 3.3: COMPOSITION OF THE PRODUCT



OVERVIEW OF THE PRODUCT DESCRIPTION

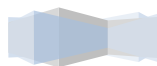
3.1| DESIGNED TO PROVIDE A RAPID AND COVERT WAY FOR REPORTING ACTIVE SHOOTER EVENTS IN MALLS AND SCHOOLS, THE S.O.S ALERT APP IS A SMARTPHONE APPLICATION. THE SOFTWARE GIVES CONSUMERS REAL-TIME CRITICAL INFORMATION AND LINKS THEM WITH LAW ENFORCEMENT.

3.2| AUTOMATICALLY NOTIFIES THE USER'S LOCATION TO AUTHORITIES UPON AN ALERT ACTIVATION. USERS OF DISCREET REPORTING MAY SUBMIT NOTIFICATIONS WITHOUT PERSONALLY BRINGING ATTENTION TO THEMSELVES. LAW ENFORCEMENT'S REAL-TIME INFORMATION COME VIA PUSH NOTIFICATIONS. SYNC WITH GOVERNMENT SYSTEMS: INTERACTS WITH DoD AND DoS SYSTEMS AS WELL AS EMS USED BY POLICE AND FIREMEN.

3.3| SIMPLE AND CLEAR DESIGN THAT GUARANTEES EASE OF USE EVEN UNDER PRESSURE GUARANTEES THE USER INTERFACE (UI). MANAGES DATA PROCESSING, GEOLOCATION TRACKING, AND EMERGENCY SERVICE COMMUNICATION FROM BACKENDS. ENSURES THAT ALL DATA TRANSFERS AND COMMUNICATIONS FOLLOW GOVERNMENT CRITERIA AND ARE SAFE FROM A SECURITY STANDPOINT.



CHAPTER 4.....TITLE: TECHNICAL
SPECIFICATIONS



CHAPTER 4: TECHNICAL SPECIFICATIONS

SECTION 4.1: HARDWARE REQUIREMENTS

SECTION 4.2: SOFTWARE COMPATIBILITY

SECTION 4.3: SECURITY FEATURES



TECHNICAL SPECIFICATIONS

4.1|

SUPPORTED DEVICES: SMARTPHONES AND TABLETS

OPERATING SYSTEMS: ANDROID 5.0 AND ABOVE, IOS 12.0 AND ABOVE

MINIMUM RAM: 2 GB (FOR BASIC FUNCTIONALITIES)

RECOMMENDED RAM: 4 GB (FOR ADVANCED FEATURES LIKE REAL-TIME TRACKING AND BACKGROUND OPERATION)

4.2|

ANDROID: THE APP LEVERAGES ANDROID'S OPEN-SOURCE NATURE TO OFFER BACKGROUND LOCATION TRACKING, PUSH NOTIFICATIONS, AND EMERGENCY ALERTS.

IOS: COMPATIBLE WITH ALL IOS DEVICES RUNNING VERSION 12.0 OR LATER, ENSURING SUPPORT FOR BOTH OLDER AND NEWER DEVICES.

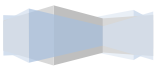
4.3|

ENCRYPTION: USES AES-256 ENCRYPTION TO SECURE USER DATA.

GOVERNMENT COMPLIANCE: ADHERES TO DoD AND DoS IT SECURITY STANDARDS, ENSURING SECURE COMMUNICATION WITH GOVERNMENT AND EMERGENCY SERVICES.

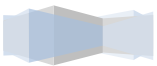


CHAPTER 5.....TITLE: APPENDICES



CHAPTER 4: TECHNICAL SPECIFICATIONS

SECTION 5.1: LIST OF IMAGES AND ICONS



LIST IMAGES AND ICONS

