



# wewrw project rwewerw

Android Application

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## ABSTRACT

Hey guys

I'm working on my new project after stock-market

I just know if u have any idea about genetic algorithms by matlab programming

I'm read tow books about it ,,

But my problem here is

I don't know how can I creat a script optimization function with function's genetic ( fitness fincinm ,,ext)

Can anyone helps me to get it and add function objective inside my script genetic ,,!

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We are greatly incepted to our faculty and the whole

Administration staff

Team :

1. awe
2. wqwewqw

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## 1.0 CHAPTER ONE: INTRODUCTION

### 1.1 Project Motivation

Hey guys

I'm working on my new project after stock-market

I just know if u have any idea about genetic algorithms by matlab programming

I'm read tow books about it ,,

But my problem here is

I don't know how can I creat a script optimization function with function's genetic ( fitness fincinm ,,ext)

Can anyone helps me to get it and add function objective inside my script genetic ,,!

### 1.2 Problem Statement

1. Track progress at main task by number of subtasks have completed

### 1.3 Project Aim and Objectives

#### **Intended User**

Hey guys

I'm working on my new project after stock-market

I just know if u have any idea about genetic algorithms by matlab programming

I'm read tow books about it ,,

But my problem here is

I don't know how can I creat a script optimization function with function's genetic ( fitness fincinm ,,ext)

Can anyone helps me to get it and add function objective inside my script genetic ,,**Features**

1. Sign in

## 1.4 Project Software and Hardware Requirements

### Hardware Requirement:

1. I5 Processor Based Computer
2. 4GB-RAM
3. 80 GB Hard Disk
4. Monitor
5. Internet Connection
6. Android Device

### Software Requirement:

1. Windows 7 or higher
2. Android Studio
3. Sublime text 3
4. XAMPP
5. POST MAN

**Front End:** Android

**Backend:** PHP

**Database:** MYSQL



## 2.0 CHAPTER TWO: RELATED EXISTING SYSTEMS

### 2.1 Introduction

There are many tools some of them are open source other not

In this chapter I will mention some of them with disadvantage and how project will solve it

### 2.2 Existing Systems

- Streamtime

### 2.3 Overall Problems of Existing Systems

1. Limit number of team at free version to 5
2. Upgrade every month with expensive cost
3. There is no Arabic language included in language options

### 2.4 Overall Solution Approach

1. Allow user to choose language between Arabic and English

## 3.0 CHAPTER THREE: SYSTEM REQUIREMENTS ENGINEERING AND ANALYSIS

### 3.1 Introduction

The software requirements engineering and analysis describe features and functionalities of target system include this processes:

1. Feasibility Study
2. Requirement Gathering
3. Software Requirement Specification
4. Software Requirement Validation

### 3.2 Feasibility Study

Study if system with its requirement is applicable or not System needs

Server

Designer

Android developer  
Sign in method  
Push notification  
Edit database  
All requirement are available

### 3.3 Requirements Elicitation Techniques

#### **Task analysis**

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#### **DOMAIN analysis**

Study this apps and how it work what functionality can perform :

### 3.4 Targeted Users

### 3.5 Functional Requirements

Requirements , which are related to functional aspect of software

1. Sign in
- 2.

### 3.6 Non Functional Requirements

Requirements, which are not related to functional aspect of software .they are implicit or expected characteristics of software

1. Logging

2. Storage
3. Performance
4. Cost
5. Flexibility
6. Accessibility

## 4.0 CHAPTER FOUR: SYSTEM DESIGN

### 4.1 Introduction

It describes desired features and operations in detail, including screen layouts, business rules, process diagrams, pseudo code and other documentation. The most creative and challenges phase of the software development life cycle is software design. The term design describes final software and the process by which it is developed. The purpose of the design phase is to plan a solution of the problem specified by the requirements document. It also includes the construction of programs and program testing. Design takes us toward how to satisfy the needs. The design of a system is perhaps the most critical factor affecting the quality of the software; it has a major impact on the later phase, particularly testing and maintenance. The output of this phase is the design document

## PERT Chart

*Figure 1 PERT Chart*

## 4.2 Context Diagram

### 1. DFD level 1

*Figure 2 DFD level 1*

### 2. DFD level 2

*Figure 3 DFD level2*

### 4.3 Entity Relationship Diagram (ERD)

*Figure 4 Entity Relationship Diagram (ERD)*

### 4.4 UML Use Case Diagram

*Figure 5 UML Use Case Diagram*

### 4.5 UML Class Diagram

*Figure 6 UML Class Diagram*

### 4.6 Graphical User Interface (GUI) Design

- 1. Select to Sign up or login**
- 2. Sign up**
- 3. Login**
- 4.**

## 5.0 CHAPTER FIVE: SYSTEM IMPLEMENTATION

### 5.1 Introduction

Implementation of System divided to

1. Database
2. GUI
3. API
4. APP Development

## 5.2 Database Implementation

### Logical diagram

Figure 7 Logical diagram

### Relational diagram

Figure 8 Relational diagram

### Data dictionary




	#	Name	Type	Collation
<input type="checkbox"/>	1	em_id 	int(11)	
<input type="checkbox"/>	2	frist_name	varchar(20)	latin1_swedish_ci
<input type="checkbox"/>	3	last_name	varchar(20)	latin1_swedish_ci
<input type="checkbox"/>	4	manger_id 	int(11)	
<input type="checkbox"/>	5	saraly	int(11)	
<input type="checkbox"/>	6	email	varchar(30)	latin1_swedish_ci
<input type="checkbox"/>	7	phone	varchar(18)	latin1_swedish_ci
<input type="checkbox"/>	8	department_id 	int(11)	

Figure 9 Employee data dictionary

Figure 10 Project Employee data dictionary

### Task

Figure 11 Task data dictionary

## 5.3 Graphical User Interface Implementation

### 1. Splash Screen Slider



### 2. Select to sign in or login

## 5.4 Other Components Implementation

**Database Tables :**

## **6.0 CHAPTER SIX: SYSTEM TESTING AND INSTALLATION**

### **6.1 Introduction**

Software testing against requirements and system specification .

#### **Include**

1. Software validation
2. Software verification

Database tested at PhpMyadmin , POSTMAN



Android at emulator and real device API 19

## 6.2 Requirements Validation and Completeness

completed Requirement:

3. Sign in
4. login

Uncompleted Requirement:

1. Generate reports about

## 6.3 System Installation

Hardware Requirement:

1. I5 Processor Based Computer
2. 4GB-RAM
3. 80 GB Hard Disk
4. Monitor
5. Internet Connection
6. Android Device

Software Requirement:

6. Windows 7 or higher
7. Android Studio
8. Sublime text 3
9. XAMPP
10. POST MAN

**Front End:** Android

**Backend:** PHP

**Database:** MYSQL

Describe libraries used and reasoning for including them.

Retrofit (<http://square.github.io/retrofit/>) for making the network calls.

Library	Stable version
Gradle	3.1.3
Plugin	3.1.3
constraint-layout	1.1.3
Android studio	3.1.3
gson	2.8.0
retrofit	2.1.0
retrofit2:converter-gson	2.1.0
androidx.appcompat	1.0.2
android.material	1.1.0
test junit	:4.12
gms:play-services-auth	17.0.0
cardview	1.1.0
firebase	17.0.0
firebase-auth	18.0.0

Database

Server

Website

Android app test at API 19 KitKat

## 7.0 CHAPTER SEVEN: PROJECT CONCLUSION AND FUTURE WORK

### 7.1Future Work :

1. Generate reports about p

### 7.2CONCLUSION

App consist of three main things :

1. GUI

Implemented by XML using Android Studio containing 16 screen for employee and Manager as Mention in chapter 5 page 35 .

App is responsive for different Screen sizes from small mobiles to large tables and in 2 language Arabic and English depend on mobile language that App is install on it .

## 8 APPENDEX

### 1. Android studio version 1.3.1

### 2. Database server

- Server: 127.0.0.1 via TCP/IP
- Server type: MariaDB
- Server connection: SSL is not being used Documentation
- Server version: 10.1.37-MariaDB - mariadb.org binary distribution
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

### 3. Web server

- Apache/2.4.37 (Win32) OpenSSL/1.1.1a PHP/7.3.1
- Database client version: libmysql - mysqlnd 5.0.12-dev - 20150407 - \$Id: 401a40ebd5e281cf22215acdc170723a1519aaa9 \$
- PHP extension: mysqliDocumentation curlDocumentation mbstringDocumentation
- PHP version: 7.3.1