**SYSTEM DESIGN**

INTRODUCTION

This stage of software development is tied to system analysis. Hence, it provides a way of realizing the requirements specification by incorporating the functionalities that shall satisfy the user requirements. The design process translates requirements into a representation of the software that can be assessed for quality before coding begins. During design different modules were designed.

This includes the following:

* Conceptual design
* Logical design
* Database design
* Interface design

**Conceptual design**

The conceptual design was used to show how the system generally works, major entities, how they relate and major data flows between them. Use cases were used at this stage as well.

**Logical Design**

The logical design of a system pertains to an abstract representation of the data flows, inputs and outputs of the system. This was conducted by modelling in terms of drawing data flow diagrams to show how different system would interrelate.

Context diagram

0

Rights of

Women

Information

system

Lawyer

Organisation

link to

Visitor

Respond

result

query

*Figure1.1*

**Level 1 DFD**

3

Handling

questions/post

s

1

Register and

process

visitor details

2

Searching for

Information

4

Connecting

to organisation

website

Visitor

id

Lawyer

id

Organisation

id

id

id

id

id

sign in

feedback

query

store

question

view

question

post question

display

results

visitors details

store

organisation links

store

Questions

store

link

retrieve links

store links

Rights of women rights store

respond

Query

result

search link

get link

Visitors details

Retrieve visitors

details

start session

retrieve

*Figure 1.2*

**Database design**

During the design of the database redundancies were removed to ensure efficiency by normalizing it to the third normal form after examining relationships between attributes and determining the contents of the tables in the database.

Below are the tables in the database:



Health

H-id

title

site\_id



Economic

econ\_id

title

site\_id



social

social\_id

title



parent\_child\_

relationship\_table

id

table

parent\_id



Reproducr

ive

r-id

H-id

title

content



Maternal

m-id

H-id

title

content



Nutrition

n-id

H-id

title

content



FGM

fgm-id

r-id

title

content

site\_id



Family

fam\_id

m\_id

title

content

site\_id



Arborti

on

a-id

n\_id

title

content

site\_id



Property

p\_id

econ\_id

title

content



Employ

ment

emp\_id

econ\_id

title

content



Finance

fin\_id

econ\_id

title

content



Social

Injustices

injustice\_id

social\_id

title

content



Marriage

marr\_id

social\_id

title

content



Education

edu\_id

social\_id

title

content



FAQs

id

title

content



sites

site\_id

title

url



Posts

post\_id

title

body

author

date



comments

comment\_id

post\_id

body

author

date

**User Interface Design**

The user interface was designed to be easy and simple to use. The interface was designed using HTML and CSS.

Sample

