

ALERTBUNNY DESIGN DOCUMENTATION

INTRODUCTION

Background



AlertBunny is a mobile web application that provides users the ability to send bulk messages (sms). The system basically requires either a computer or a smartphone to execute. This system provides the users the ability to schedule their message ahead of time. This gives them the opportunity to plan ahead, saving time and money as they would always have time to modify any necessary changes. This in the end saves them from the embarrassment of misinforming their recipients.

Our main users are corporate bodies, event organizers and any individual.

Design Goals

This design document is comprised of the design of AlertBunny.

The basic architecture is a web server, a database engine, an sms service and gateway. The basic technologies to be used are HTML5, CSS, PYTHON and django.

This system design shall ensure the successful implementation of a bulk sms application that shall also include scheduling of sms.

ARCHITECTURE

This system will be a client-server architecture and will run on linux operating system (Ubuntu Server Edition).

- The system shall be composed of an interface, a database, an sms service and an sms gateway as shown FIGURE 1.
- The system has five basic models as shown in FIGURE 2.
- FIGURE 3 shows the basic conceptual interface design
- FIGURE 4 shows the use cases and actors involved in the system

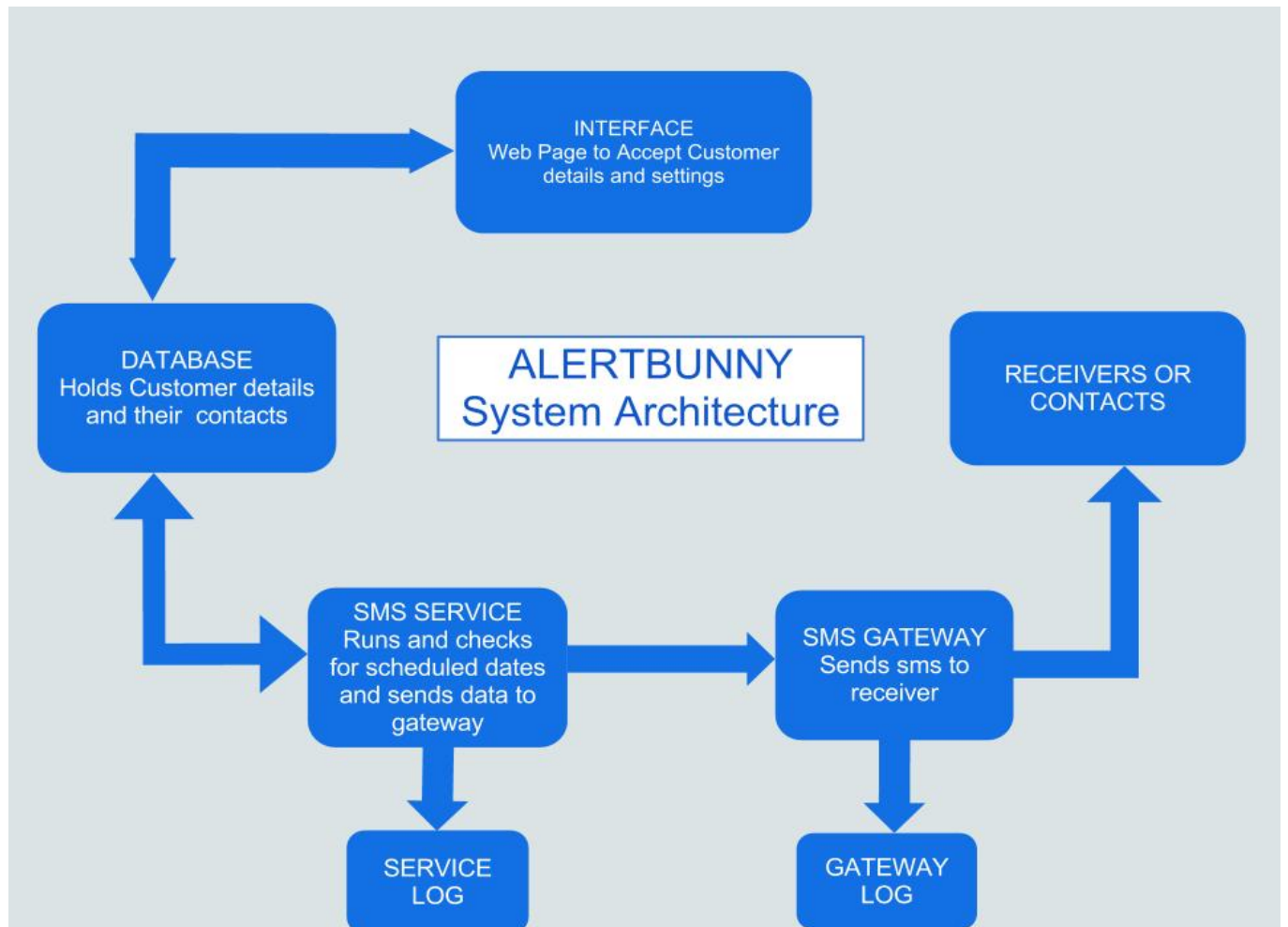


FIGURE 1

MODEL DIAGRAM

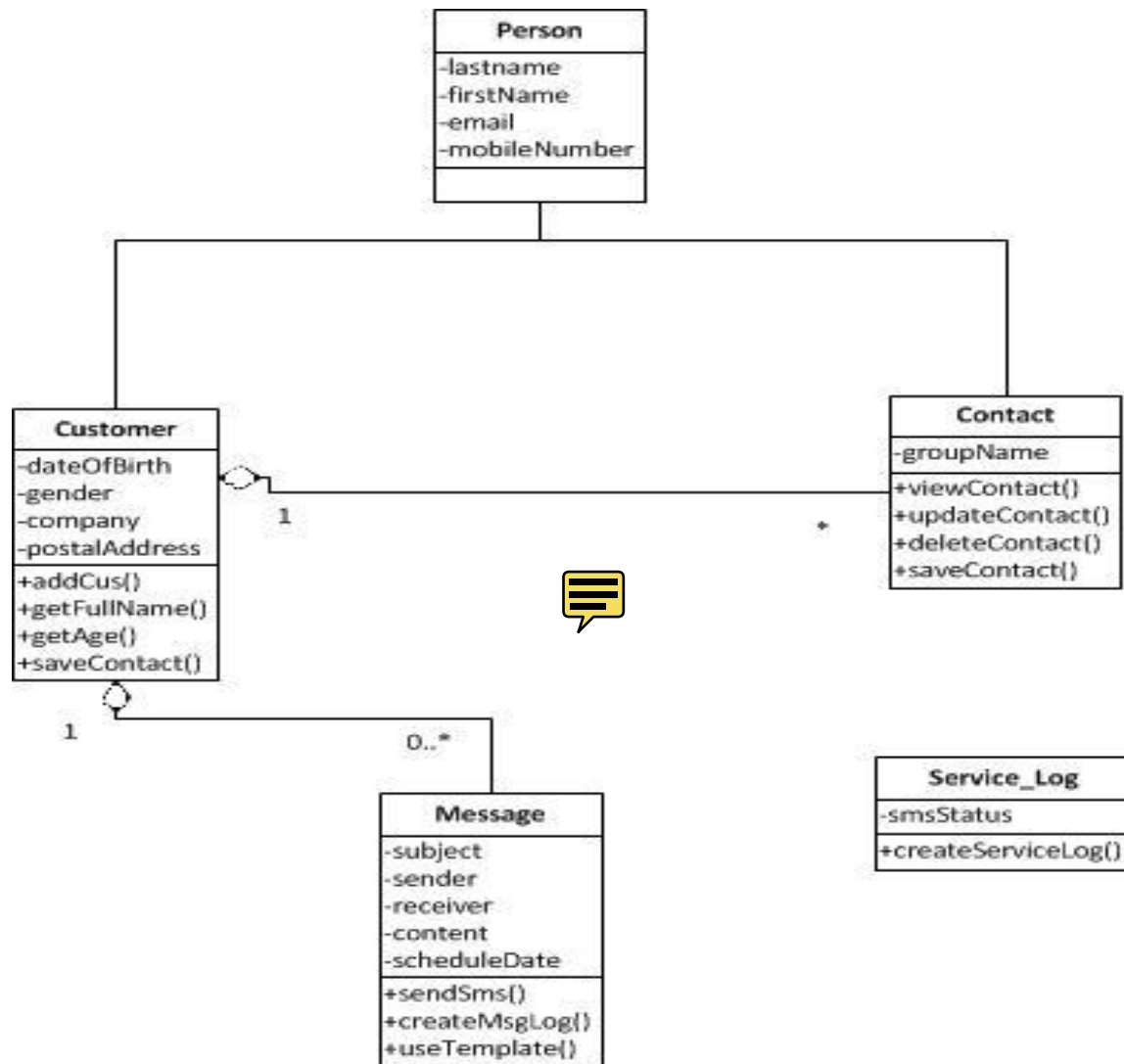


FIGURE 2

DATA MODEL

PERSON MODEL

LAST_NAME = CHARFIELD (MAXLENGTH=30)
FIRST_NAME = CHARFIELD (MAXLENGTH=30)
DATE OF BIRTH = DATEFIELD ()
COMPANY_NAME = CHARFIELD (MAXLENGTH=20)
GENDER = CHARFIELD(MAXLENGTH=1)

CUSTOMER MODEL

EMAIL = EMAILFIELD ()
POSTAL_ADDRESS = TEXTFIELD()
MOBILE_NUMBER = INTEGERFIELD()

CONTACT MODEL

GROUPNAME = CHARFIELD(MAXLENGTH=20)

MESSAGE MODEL

SUBJECT = CHARFIELD(MAXLENGTH=20)
SENDER = CHARFIELD(MAXLENGTH=30)
RECEIVER = CHARFIELD(MAXLENGTH=30)
MESSAGE = TEXTFIELD()

SERVICE LOG MODEL

MESSAGE_STATUS = BOOLEAN

CONCEPTUAL INTERFACE DESIGN

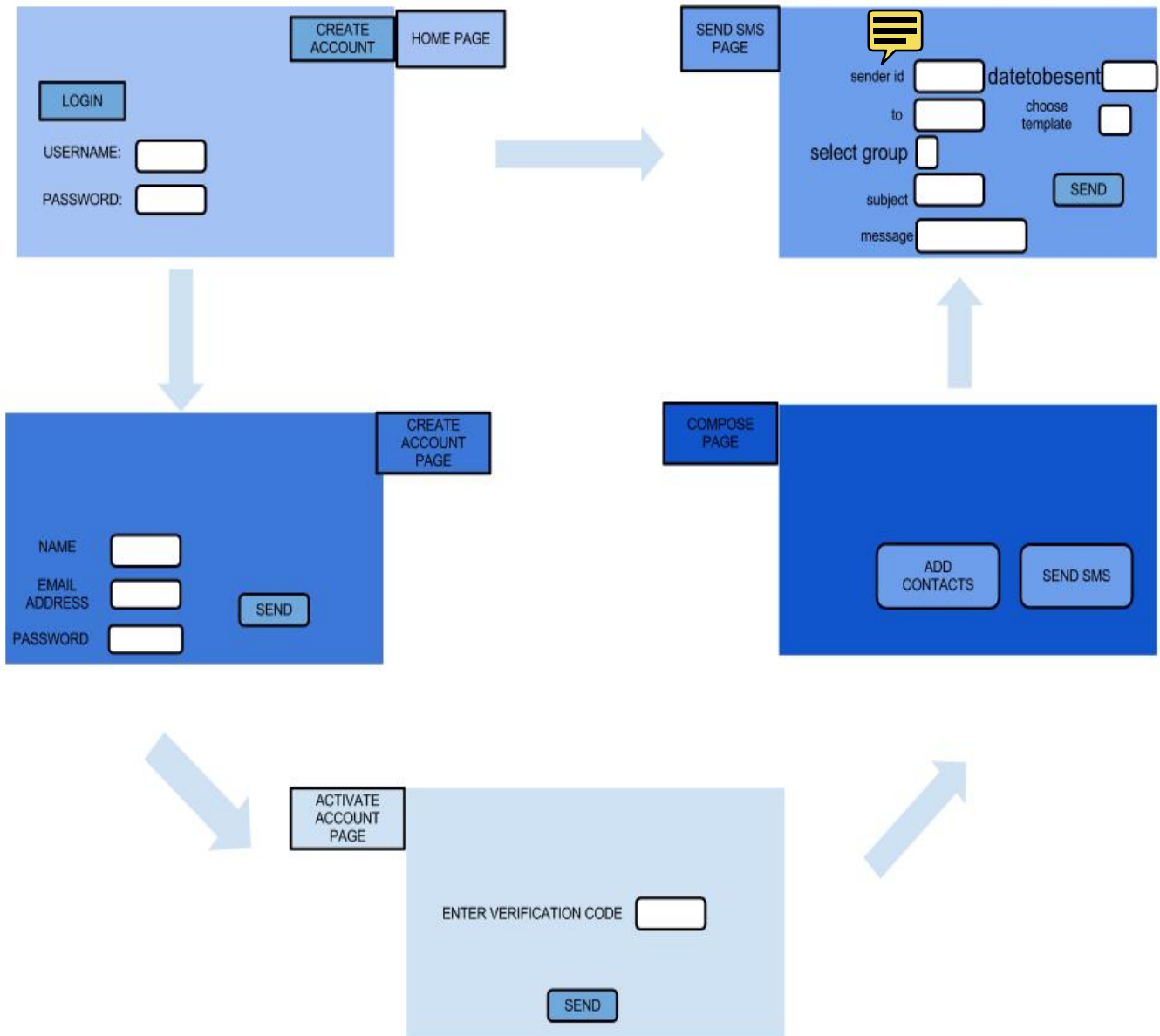


FIGURE 3

USE CASE DIAGRAM

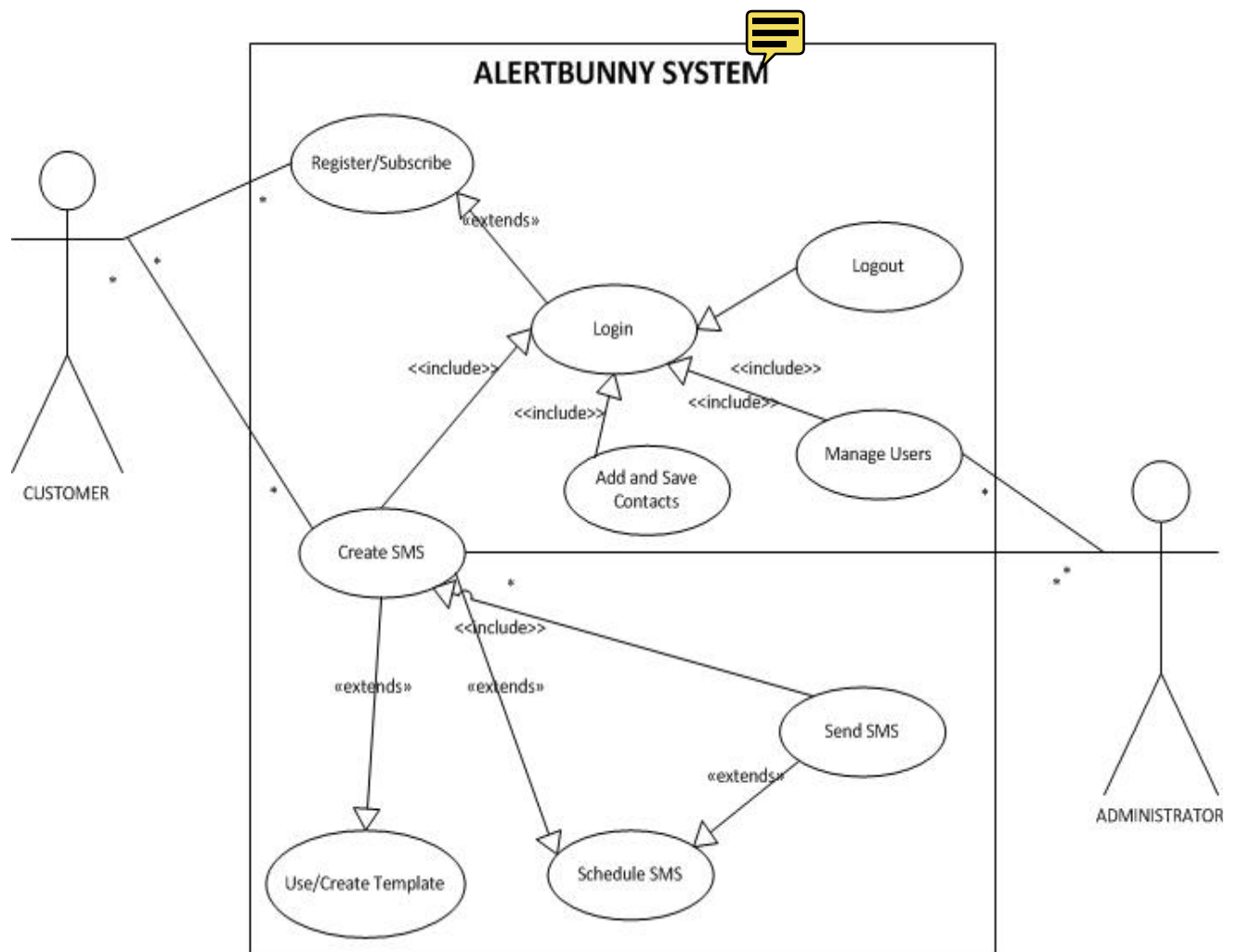


FIGURE 4