

## CHAPTER 4

### ANALYSIS AND DESIGN

#### 4.1 Analysis

The first step to do is create a user and password before login into the ISP Config account. Users and Passwords are created during ISP config installation.

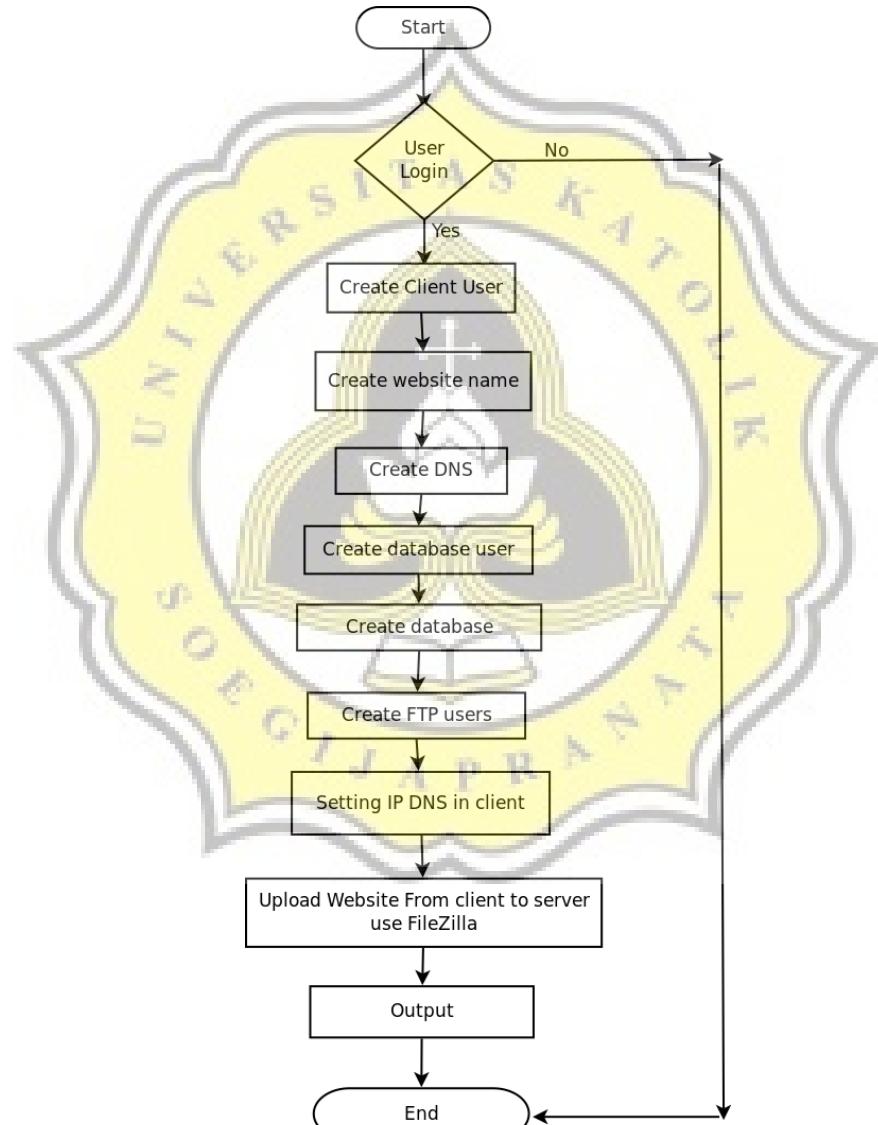


Illustration 4.1 Flowchart ISP Config

According to the illustration picture above the initial step does is sign in to your account first ISP config has been made at the time of installation the ISP config, If username and password are entered incorrectly it will automatically return to the login page in the ISP config. The next step after getting into the ISP config is made the client beforehand as the user that will be used in the manufacture of web hosting. The next process is to make the name of the site who want.

The next process is to make the domain name server on a site that has been created that is also used as the hostname on filezilla. After that make a database user as shelter database of websites that will be accessed the next step is to create a database that will be used as shelter data from websites that will be database. The process of creating this database requires a database user in advance. The next step is to create a username and password to FTP servers that will be used for the metransfer website files from the client to the server.

After that the next process is to configure the DNS IP of the client. The IP DNS client is filled with the server's own IP of the ISP config. After that use filezilla as a software to transfer your website files from the client to the server. Hostname on filezilla client property is populated with the name of the website that has been created after the file transfer website from the client to the server is successful the next process is showing the website to the web browser to type the name of the website which has been created.

Software should used to install ISP config is:

1. The operating system Linux Kubuntu 16.04

Kubuntu 16.04 operating system has needed because in linux operating system Kubuntu 16.04 is suitable for use as a server because in this operating system there is software that is suitable installed in software installation process required by ISP config.

2. BIND DNS

BIND DNS in this project is used to create a DNS server. The DNS server is a server service that is used to redirect the name of the website that will be accessed by the web browser to the server IP . Bind DNS software on the Kubuntu operating system must be installed first using apt-get install bind9 dnsutils haveged.

### 3. Apache Web Server

In this project an apache web server is the most important software to install as a web server. Apache web server in project is useful for showing the ISP config to your web browser. Apache web server is a server service is useful for displaying a Web page to a web browser by using HTTP and HTTPS protocol. The Protocol being used in ISP config using the HTTPS protocol. HTTP itself works on port 80.

### 4. PureFTPD

PureFTPD in project is useful to build a FTP server. PureFTPD is a service of the server that is used in transferring a file from the client to the server.

### 5. Mysql Server

Mysql server in ISP config is useful as data storage from ISP config. Data stored in mysql this is the username and password used to login to the ISP config, name of the client that is already configured ISPconfig, name of the website you want to use FTP, the user will be used to transfer files, database user made to a website, the creation of a database for websites that require a database, as well as the dns server that is already configured.

### 6. PHP Myadmin

PHP Myadmin in this project is used to manage and process databases from ISP config. PHP Myadmin itself is displayed in the form of a website

### 7. Roundcube Web Mail

In this project Roundcube is used to set up an e-mail server service in the form of website and can be accessed through web browser.

## 8. PHP

PHP is a programming language that is used on ISP Config PHP which is used for this project are PHP 7.0. ISP config version 3 also using PHP programming language as its base.

### 4.2 Desain

Design on the config menu in the form of ISP hosting control panel that is on the system. ISP config itself consists of several server services used in hosting. In the initial page of ISP config there is a login screen that is used to login to the user that has been created. page after login in the ISP config menu is used to hosting.

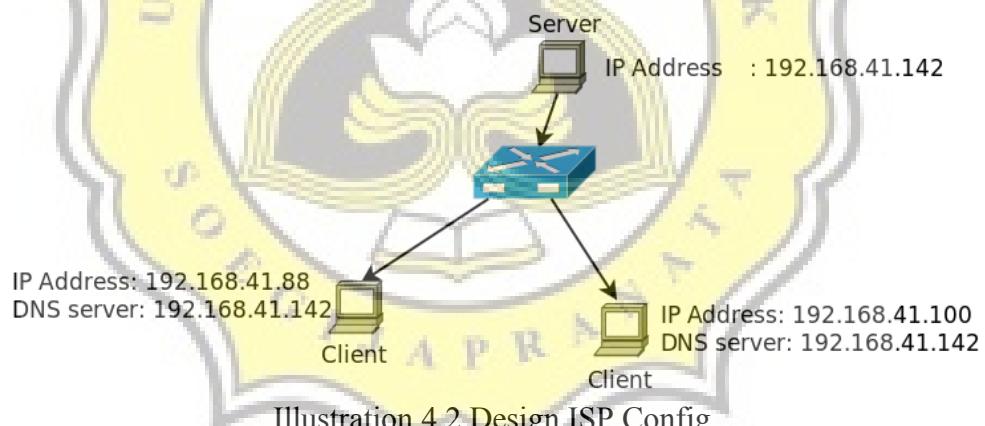


Illustration 4.2 Design ISP Config.

Look at the diagram above if someone does brosing to the web server. In the first step the computer client will ask for a request to the DNS server that has been made in the ISP config. DNS is used to redirect the name of the website that will be accessed by the web broser to the server IP. Next DNS will be fired into the domain to display websites that have been uploaded.