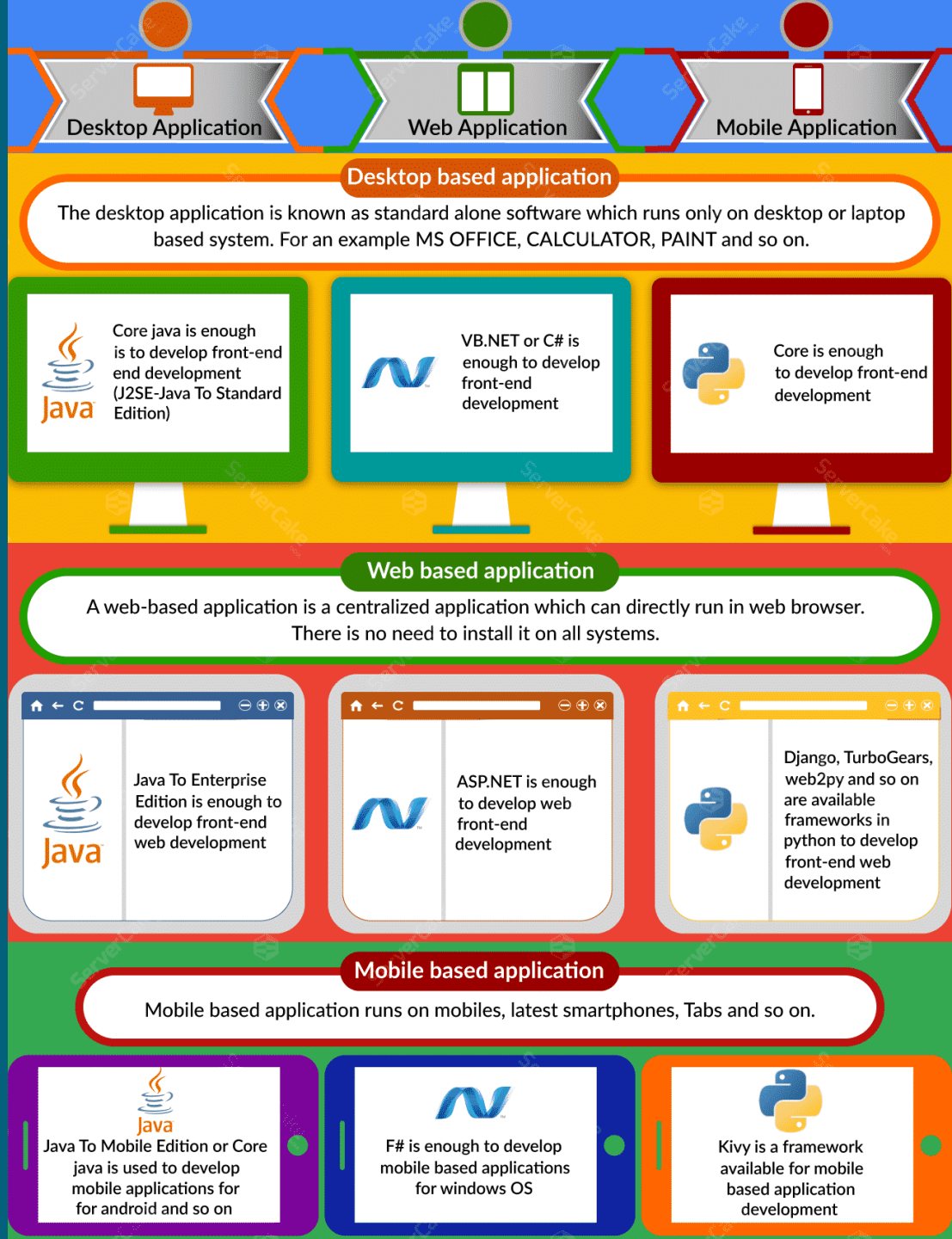
Desktop Programming

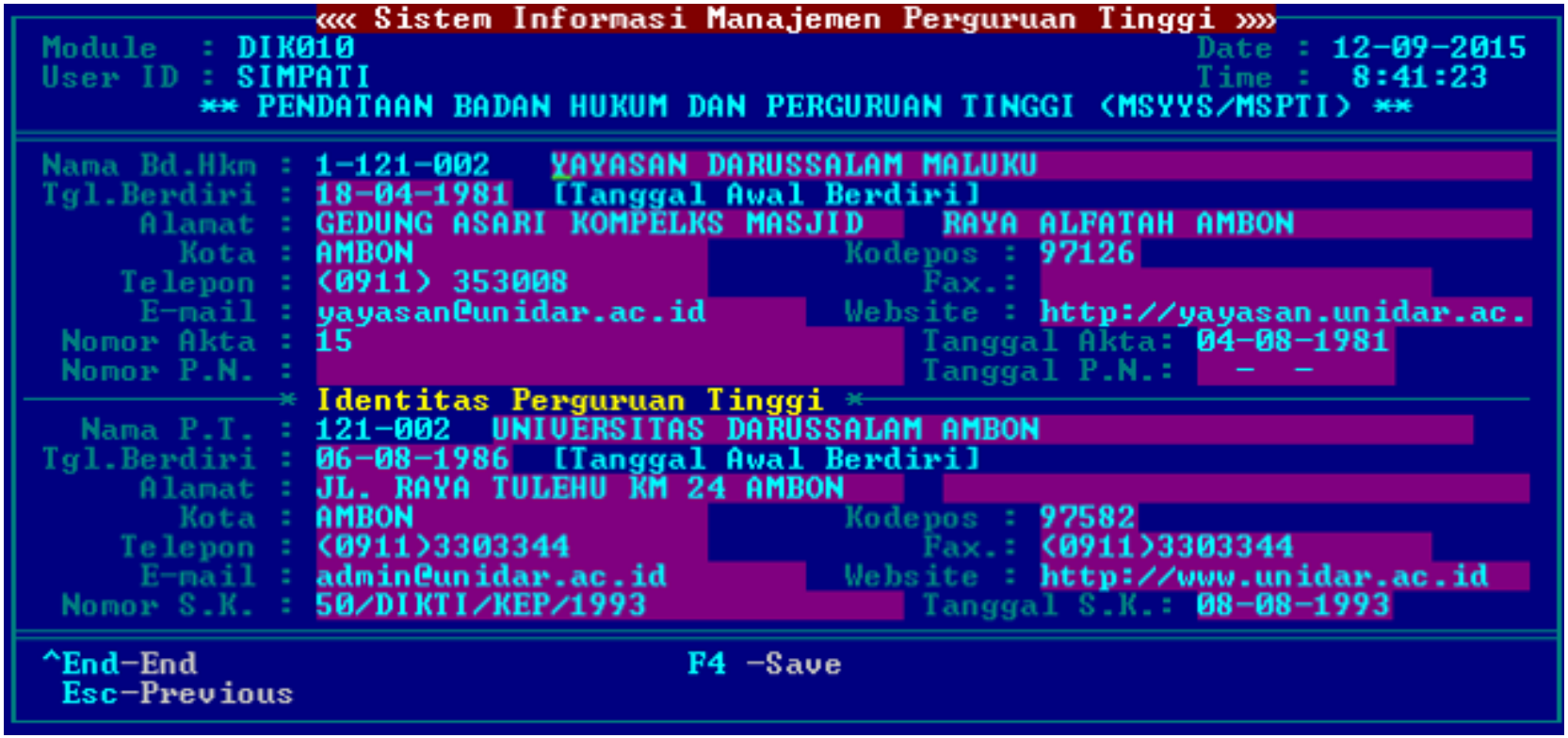
Intro.

https://hermanka.github.io

What is Desktop App?



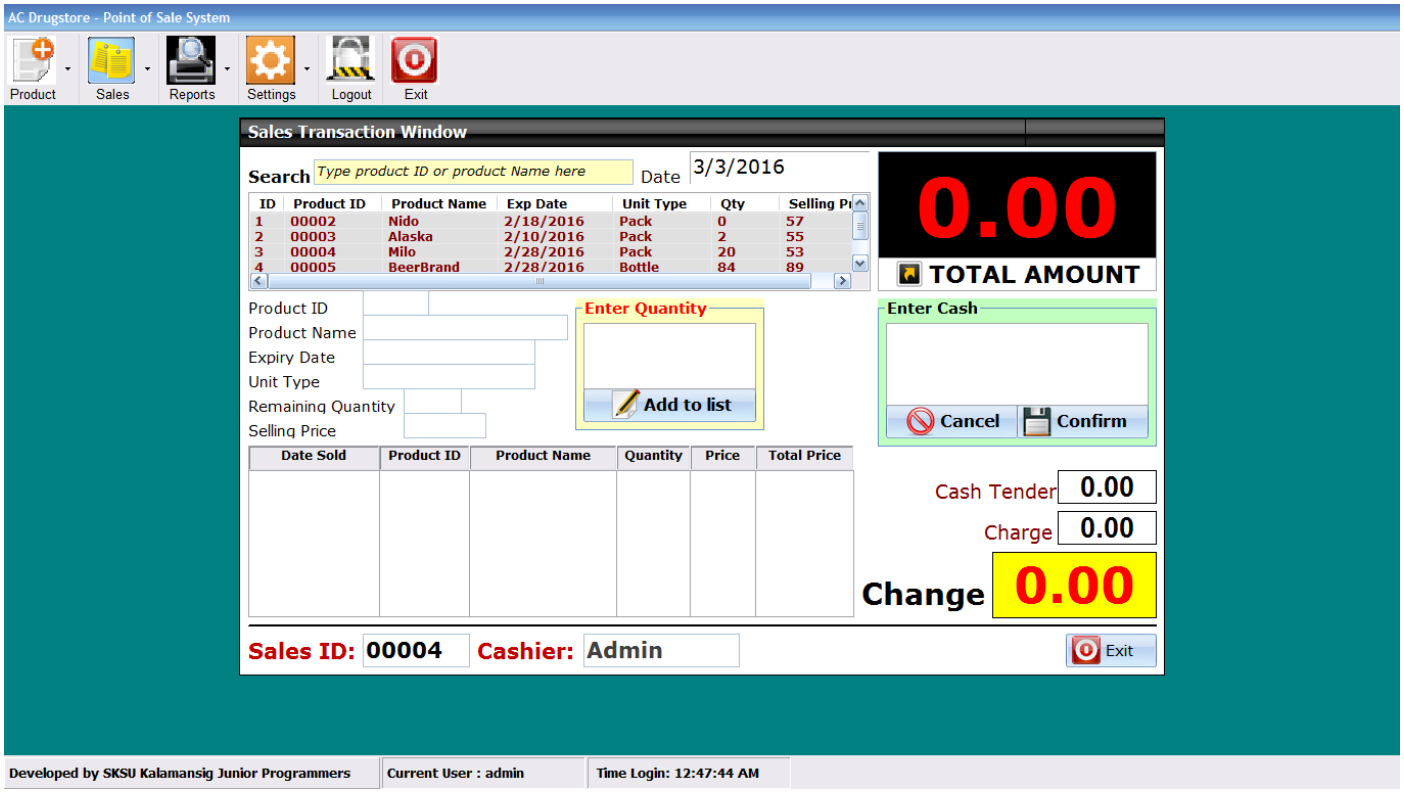
Early Developments



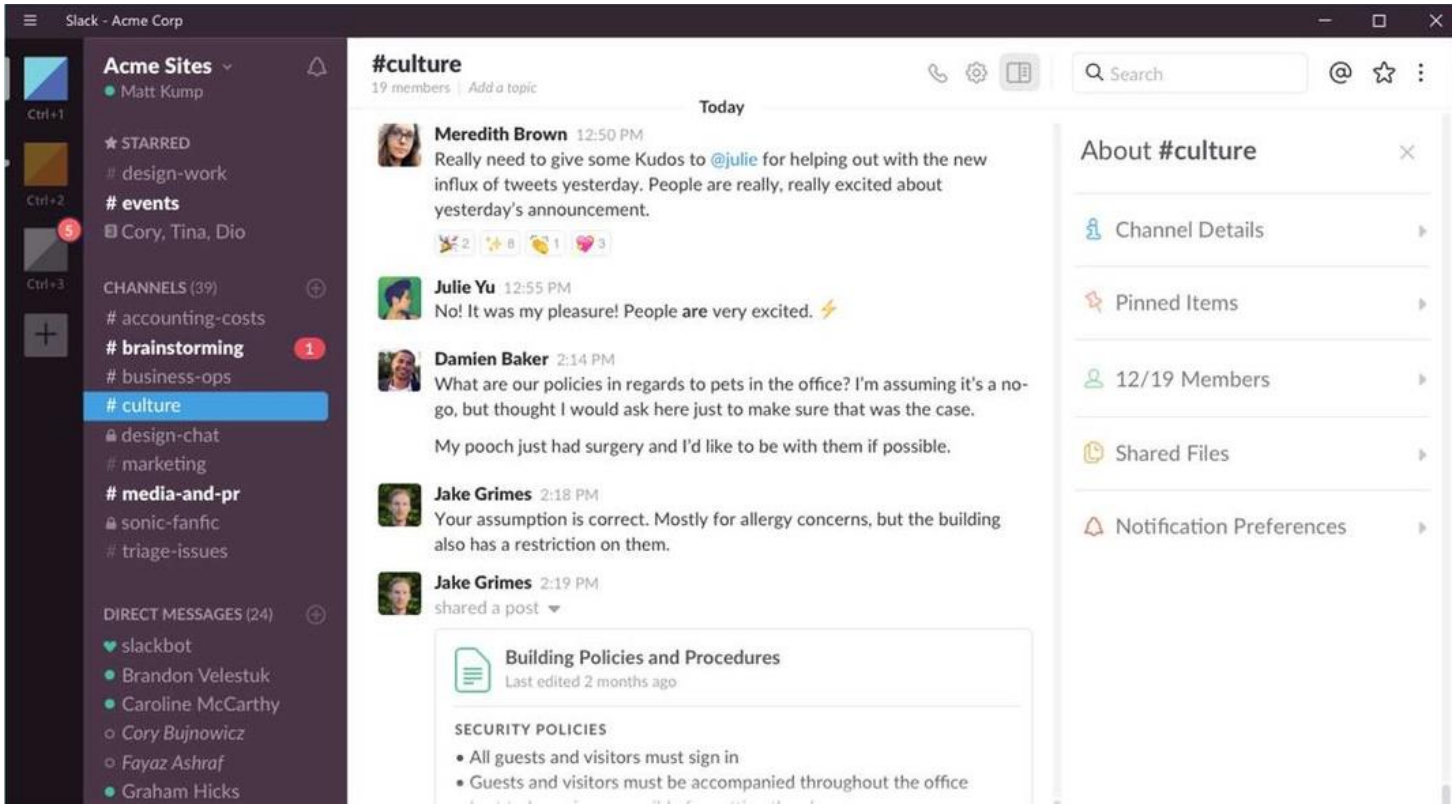
COBOL

PASCAL

GUI Generations



Cross Platform



ELECTRON

Flutter

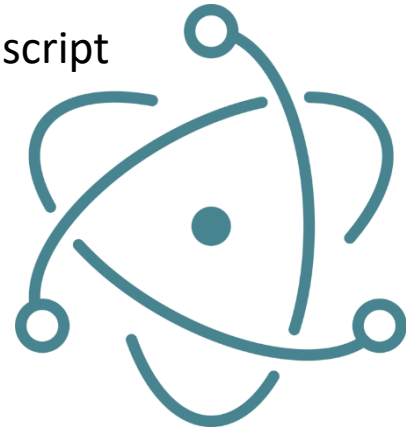
Java™

Visual Studio Requirements

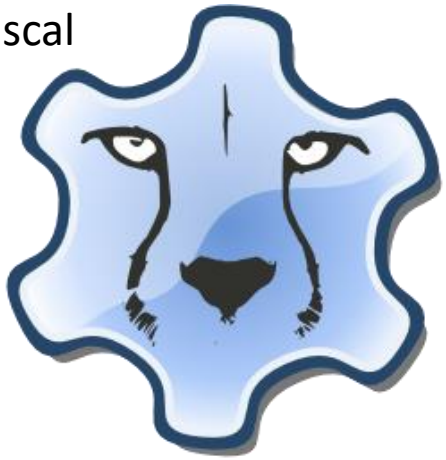
- 1.8 GHz or faster processor. Quad-core or better recommended
- 2 GB of RAM; 8 GB of RAM recommended (2.5 GB minimum if running on a virtual machine)
- Hard disk space: Minimum of 800MB up to 210 GB of available space, depending on features installed; typical installations require 20-50 GB of free space.
- Hard disk speed: to improve performance, install Windows and Visual Studio on a solid state drive (SSD).
- Video card that supports a minimum display resolution of 720p (1280 by 720); Visual Studio will work best at a resolution of WXGA (1366 by 768) or higher.
- Use Windows or Mac, **not available for Linux**.

What Would You Choose?

Javascript



Pascal



Python

Basic/C#

Java

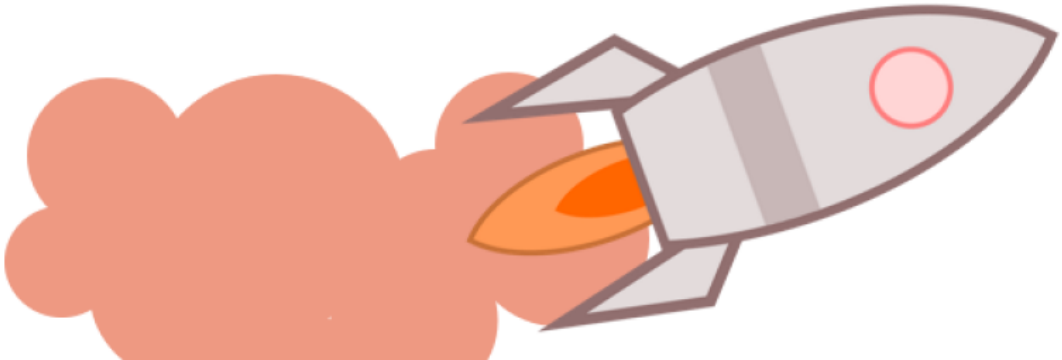
1: What is Lazarus

Lazarus is a Cross Platform IDE which lets you easily create programs you want. It has an easy-to-use interface and works out of the box so that you can start right away!

IDE means Integrated Development Environment – which means it is an interface to create software fast. So fast that it is called a **RAD** or Rapid Application Development IDE.

Cross Platform means you can run the IDE in any Operating System you use, Windows, Linux, Mac, BSD, Raspberry Pi – you name it! Your programs will run there too!

Let's not spend more words on this. Let's jump right in...!



Downloads

You can download Lazarus 2.0.6 which is accompanied by FPC 3.0.4 from this page.

Lazarus is cross platform and supported on various platforms. Choose your platform to go to the corresponding page:

Windows

- Windows (32 and 64 Bits) Direct download
- Windows (32 Bits) Add ons
- Windows (64 Bits)
- Windows (64 Bits) Add ons

Linux

DEB Releases

- Lazarus Linux i386 DEB (32 Bits)
- Lazarus Linux amd64 DEB (64 Bits)

RPM Releases

- Lazarus Linux i386 RPM (32 Bits)
- Lazarus Linux x86_64 RPM (64 Bits)

Mac OS X

- Lazarus Mac OS X i386 (32 Bits)

Sources

- Lazarus Zip - GZip

MD5 and SHA Checksums

- See this page for md5 and sha-1 checksums of the official downloads

On Ubuntu

Open a terminal (Ctrl+Alt+T), then run these commands:

```
sudo aptitude install lazarus
sudo aptitude install fpc fpc-source lcl
```

On Arch Linux

Normally this should do it:

```
sudo pacman -S lazarus lazarus-gtk2 gdb
```

If you are using KDE or lxqt, go ahead and run this instead:

```
sudo pacman -S lazarus lazarus-qt gdb
```

On Fedora / RedHat / Cent OS etc.

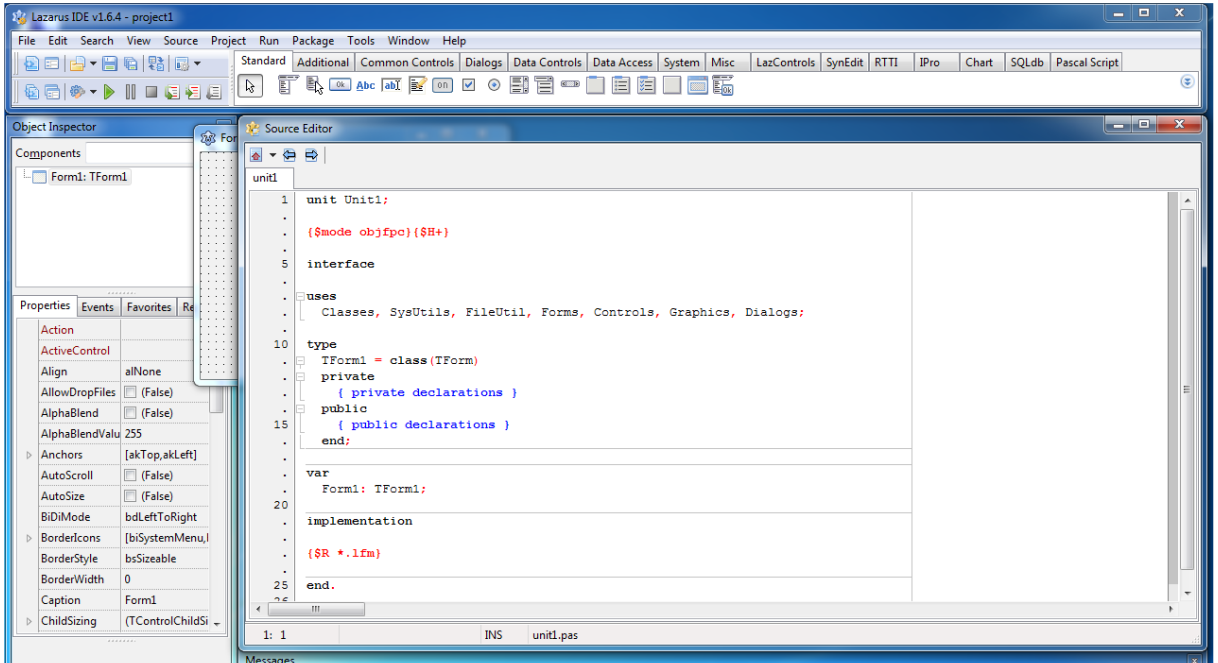
You can go ahead and run:

```
sudo yum install lazarus gtk2-devel
```

3: How to Create Your First Program

Creating with Lazarus is very easy. With just some quick clicks and a bit of typing you can achieve what others take hours and even days.

Start Lazarus – just like any other program.

If this is your first time, you should see a dialog titled **Welcome to Lazarus IDE 1.6.4**. Click **Start IDE**.

It should start the Lazarus IDE. Now move and resize the windows a little bit and it would look something like this: