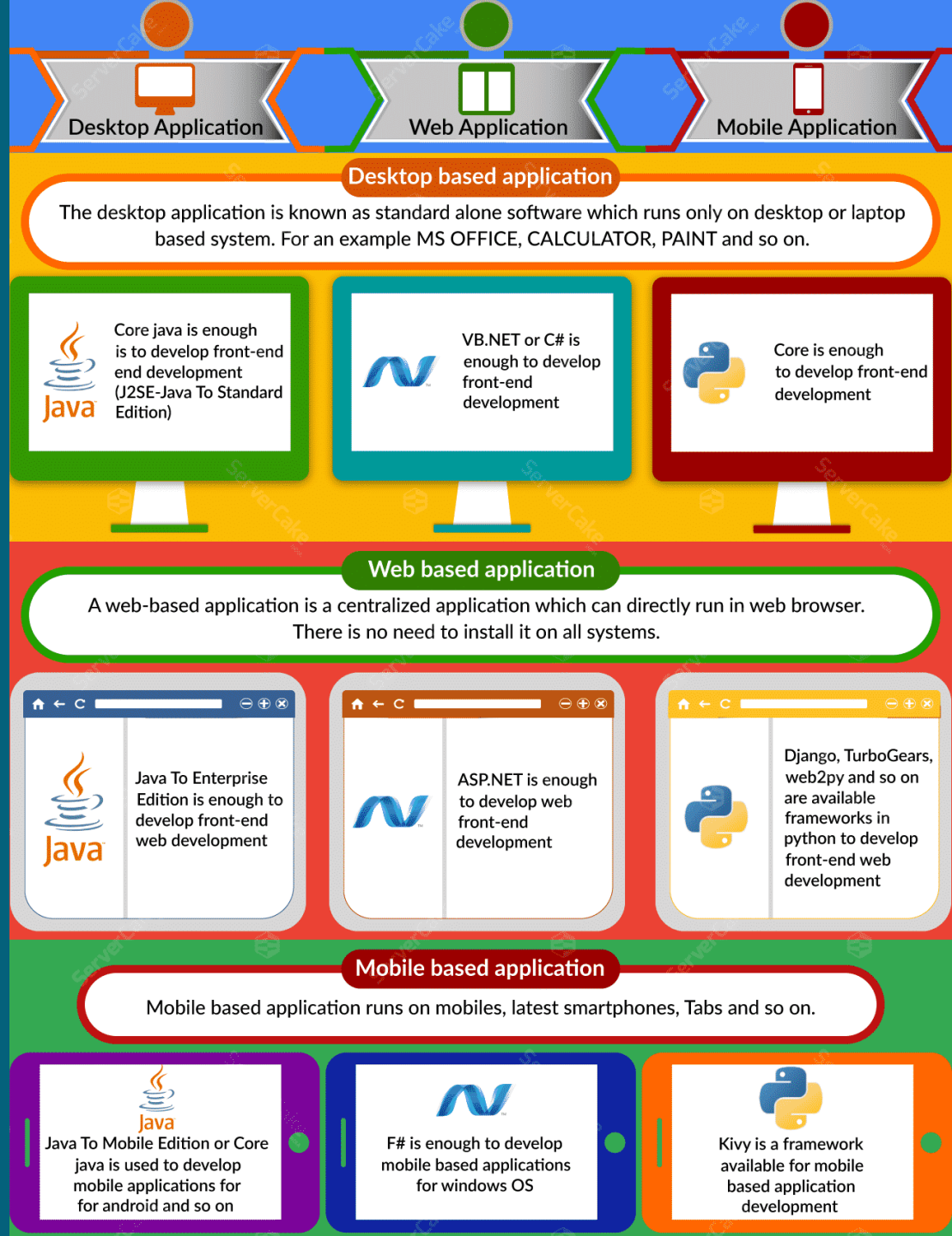


# Desktop Programming



Intro.

# What is Desktop App?





# Early Developments

```

      <<< Sistem Informasi Manajemen Perguruan Tinggi >>>
Module   : DIK010                               Date : 12-09-2015
User ID  : SIMPATI                             Time : 8:41:23
      ** PENDATAAN BADAN HUKUM DAN PERGURUAN TINGGI <MSYYS/MSPTI> **

Nama Bd.Hkm : 1-121-002  YAYASAN DARUSSALAM MALUKU
Tgl.Berdiri : 18-04-1981 [Tanggal Awal Berdiri]
Alamat      : GEDUNG ASARI KOMPELKS MASJID  RAYA ALFATAH AMBON
Kota        : AMBON                               Kodepos : 97126
Telepon     : <0911> 353008                       Fax.:
E-mail      : yayasan@unidar.ac.id               Website : http://yayasan.unidar.ac.
Nomor Akta  : 15                                Tanggal Akta: 04-08-1981
Nomor P.N.  :                               Tanggal P.N.: - -

* Identitas Perguruan Tinggi *
Nama P.T.   : 121-002  UNIVERSITAS DARUSSALAM AMBON
Tgl.Berdiri : 06-08-1986 [Tanggal Awal Berdiri]
Alamat      : JL. RAYA TULEHU KM 24 AMBON
Kota        : AMBON                               Kodepos : 97582
Telepon     : <0911>3303344                       Fax.: <0911>3303344
E-mail      : admin@unidar.ac.id                 Website : http://www.unidar.ac.id
Nomor S.K.  : 50/DIKTI/KEP/1993                 Tanggal S.K.: 08-08-1993

^End-End                               F4 -Save
Esc-Previous

```



COBOL

PASCAL



# GUI Generations

AC Drugstore - Point of Sale System

Product Sales Reports Settings Logout Exit

### Sales Transaction Window

Search  Date

ID	Product ID	Product Name	Exp Date	Unit Type	Qty	Selling Price
1	00002	Nido	2/18/2016	Pack	0	57
2	00003	Alaska	2/10/2016	Pack	2	55
3	00004	Milo	2/28/2016	Pack	20	53
4	00005	BeerBrand	2/28/2016	Bottle	84	89

Product ID   
Product Name   
Expiry Date   
Unit Type   
Remaining Quantity   
Selling Price

**Enter Quantity**

**0.00**  
**TOTAL AMOUNT**

**Enter Cash**

Cash Tender   
Charge   
**Change 0.00**

Date Sold	Product ID	Product Name	Quantity	Price	Total Price

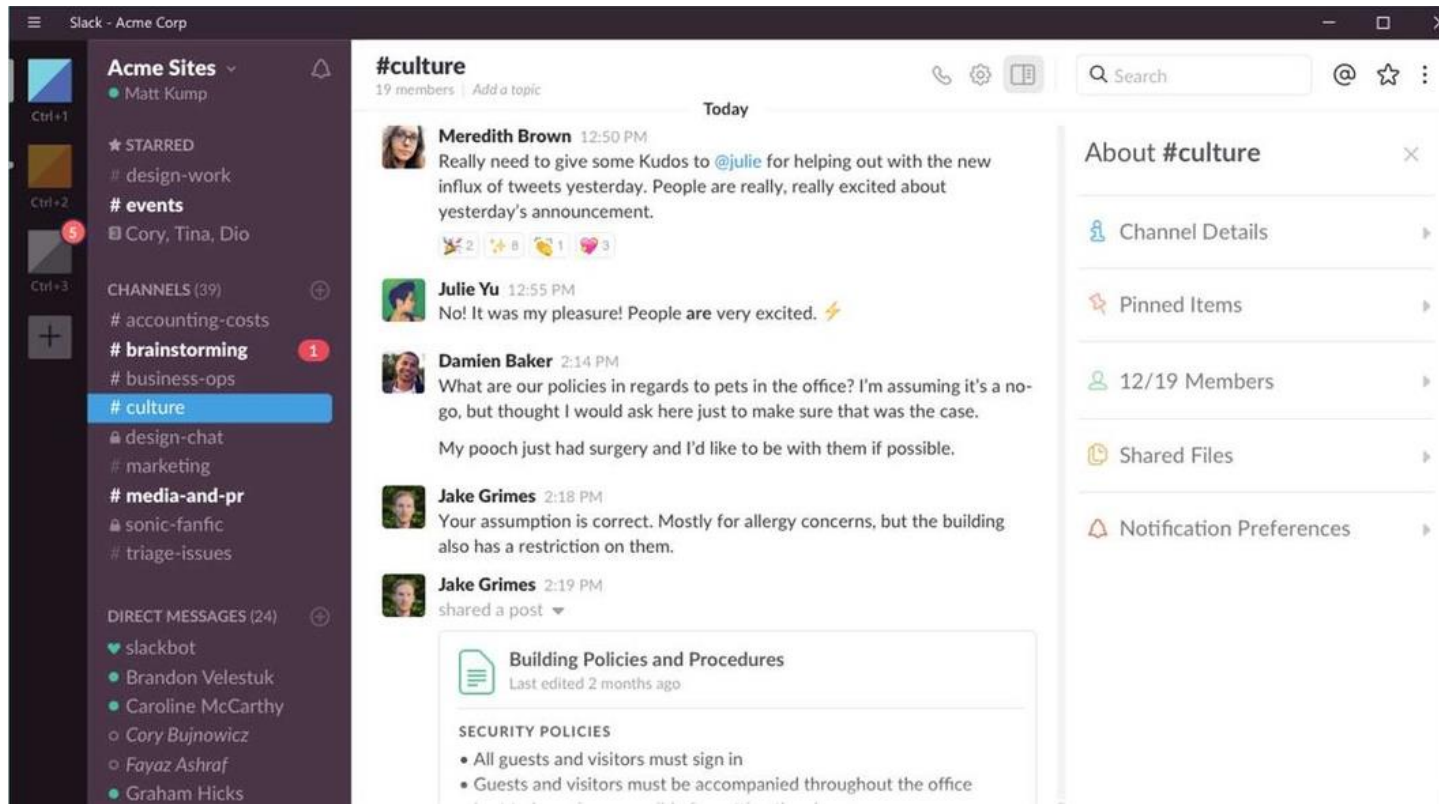
**Sales ID: 00004** **Cashier: Admin**

Developed by SKSU Kalamansig Junior Programmers    Current User : admin    Time Login: 12:47:44 AM





# Cross Platform



ELECTRON



Flutter



Java™



# Visual Studio Requirements

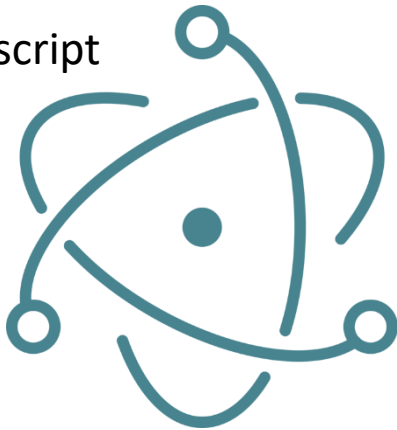


- 1.8 GHz or faster processor. Quad-core or better recommended
- 2 GB of RAM; 8 GB of RAM recommended (2.5 GB minimum if running on a virtual machine)
- Hard disk space: Minimum of 800MB up to 210 GB of available space, depending on features installed; typical installations require 20-50 GB of free space.
- 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.**

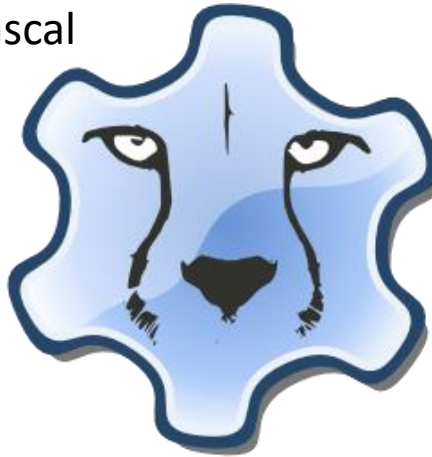


# What Would You Choose?

Javascript



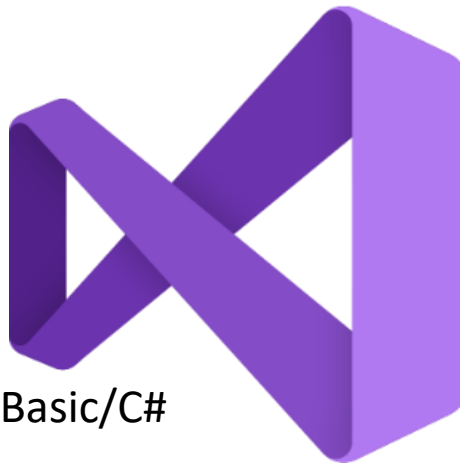
Pascal



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:

