

# A Developer Introduction



**Dekoh Desktop** is a cross-OS  
desktop platform that  
brings several key J2EE, database  
and web services modules together,  
in a compact footprint package  
ready for end consumer use

**What is Dekoh Desktop?**

- Leverage web app development skills
  - Open standards
  - Familiar programming model
- Combine the best of desktop and web
  - Rich interface, functionality
  - Use local data and devices
  - Access web services
- Applications that can work online and offline
  - Certain features may warrant going online
- Web 2.0 style sharing and community networking
  - Fine grained control on sharing
  - Security and privacy

## Why build applications to Dekoh?

*Private Media sharing*

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*Desktop Mashups*

\*

*Personal content management*

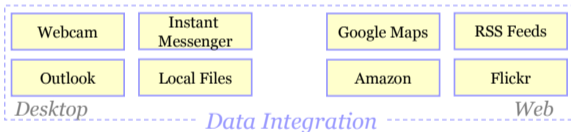
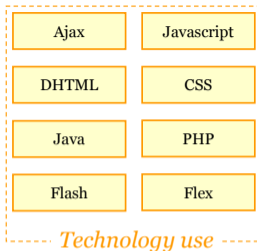
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*Personal networks & communities*

\*

*Desktop productivity*

**Class of Applications to build**



Wide range of Apps are possible

*All Software and service is free for users*

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*Small footprint, downloads in minutes*

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*Zero administration*

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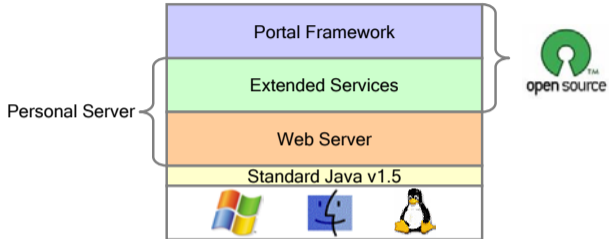
*Hassle-free upgrading*

**Making it easy for users**



- 1 Register on Dekoh.Com and download Dekoh Desktop
- 2 Explore Dekoh apps available on Dekoh.Com
- 3 Extend your registration to “Developer” on Dekoh.Org
- 4 Check out Wiki, Blog, Forums and Trac on Dekoh.Org
- 5 Contribute to the open source Dekoh community

## Getting started



# Dekoh Desktop Architecture

### Dekoh Desktop

Desktop installation including web server, extended services and portal framework

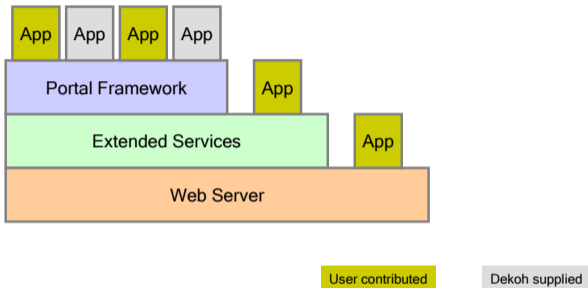
### Dekoh Applications

Apps deployed on Dekoh desktop (photos, music...)

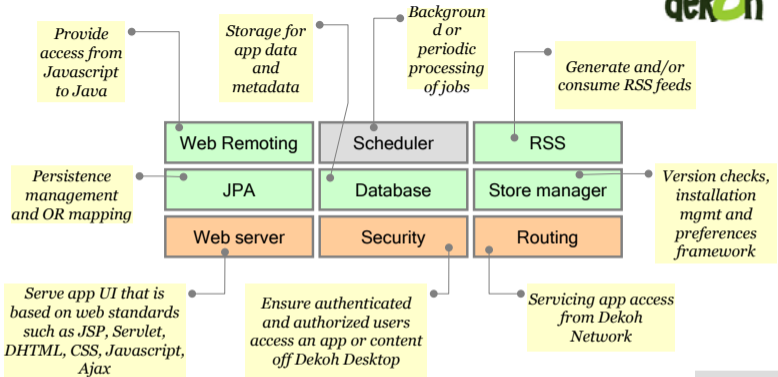
### Dekoh Network ([www.dekoh.net](http://www.dekoh.net))

Dekoh desktops can network and share content through Dekoh network. When user shares content/app, they become available through `user.dekoh.net`

Terms to understand



# Application Deployment options



# Components of Personal Server



Supported

TOPLINK  
JPA

Bundled



DWR

Bundled



Supported



Bundled



script.aculo.us

Bundled



OpenAMF

Supported



Bundled

prototype

Bundled

# Open Standards and Open Source use

- Use DHTML, Javascript, CSS, Ajax, Flash, JSP
- Served locally to a Web browser
- Multilingual support
- Bundled library of commonly required widgets
  - e.g. location chooser, file chooser, tag cloud
- Use any Ajax, Javascript library
- Web Remoting for Javascript and Flash to Java

## Building User Interface

- Built-in database
- JPA support for easy mapping of Java to database
- Predefined JPA entities in the Portal Framework
  - E.g. DigitalObject (DIO) an abstraction for personal media content

- Version Manager
  - Remove headaches of saving downloads, installation locations, version mismatch, etc.
- Preferences Framework
  - Provides easy means for apps to store preferences and settings data

Applications built on top of **Portal Framework**, automatically get facilities such as object-level persistence, sharing, tagging, rating, commenting, etc. typically common in Web2.0 applications

## What is Portal Framework

Internationalization	Widgets	Caching
Templates	Commenting	Rating
DIO entity pack	Sharing	Tagging

# Portal Framework constituents

- Portal Framework is designed for organizing, managing and sharing personal digital assets; referred to as Digital Object or DIO
- Photos, videos, music and documents are some examples
- Dekoh app writer simply extends the base classes of DIO Entity Manager

## DIO Entity Package

- Application Sharing
  - When you want buddy to access the full application
  - Application managed content sharing
- Content Sharing
  - Dekoh managed content sharing
  - Application should use Portal Framework and DIO package

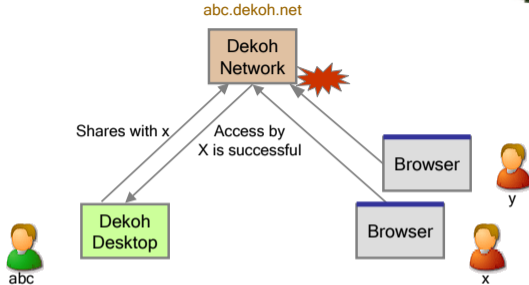
# Sharing

- User-defined shares where both content and people on the share are chosen by the owner of content
- Pre-defined Shares : Public, ShareAll, NeverShare
  - Add content to Public share and will be in the open-to-all part of 'dekoHID.dekoH.net'
  - ShareAll gives a easy way to automatically share all content with chosen parties
  - Marking content as NeverShare makes it fully private

Both Pre-defined & User-defined  
Shares possible

- Access only through Dekoh Network  
(yourID.dekoh.net)
- No direct access to your desktop, even if you have public IP or no firewall

## Security & Routing



(1) Access permitted only to explicitly shared stuff

(2) Access blocked at Dekoh Network to strangers (nothing shared for them)

## Access control on Dekoh Network

- Dekoh Enterprise uses
  - Available for ISV to bundle
  - Build Offline version of web apps
  - Remotely managed PCs/Kiosks that run web apps
- Additional features
  - Data synchronization
  - Centralized management

Dekoh Enterprise (Edition)

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