

Java Concept Card

We had outlined all the concepts related to Java Sushi card 01 here.

Introduction of Bluemix: Platform as a Service from IBM

<https://ibm.biz/bluemix4kids> Bluemix is an open-standards, cloud-based platform to build, manage, and run apps of all types, such: as

1. web,
2. mobile,
3. big data, and
4. smart devices.

Capabilities include:

1. Java,
2. mobile back-end development, and
3. application monitoring,

as well offering a single solution environment with the instant resources (e.g. sample code) and infrastructure (e.g. services and runtimes) you need to develop and deploy apps.

- **Concept of GIT**
<https://github.com/about>
- <http://www.git-scm.com/> Git is a free and open source distributed version control system which is the best place to share code with friends, co-workers, classmates, and complete strangers.
- **Why do you need to create Jazz id**
Jazz is used to manage your project and hold your GIT source code. Therefore, a Jazz Id is required to restrict access to an authorized list of people who can manage the project.
- **Build**
Building your code takes the human readable source and creates a machine readable copy, that's computers can run more efficiently.
- **Deploy**
Deploying your code takes the application that you have built and runs it on the appropriate server, allowing interaction via the route.
- **Concepts of the index.HTML in a web, and the title section**
The index.html page in a web application is the first page that is displayed when you navigate to the home URL of an application.
- **.WAR file**
Java web applications are a series of files, these files can be collected/archived in a single file, this file is called a .WAR file.
- **commit >> Sync >> Build&Deploy**
Source control, via Git requires that you:
 1. make changes - edit code,
 2. commit those changes - verify that the changes made are valid and add comments to a set of changes,
 3. sync - ensure that the copy in the local git, where you edit, and server, where it is built, are the same,
 4. build - create machine readable applications from human readable source code,
 5. deploy - run the application.
- **Build archive directory**
The build archive directory is the location to which the code that is built is placed. Allowing the build to know where to put the built code and the deploy to know where to get the application to run.
- **Concept of builder options: Ant, others etc**
Building your code may required different steps Ant and other tools can help you specify the steps required to build your code.