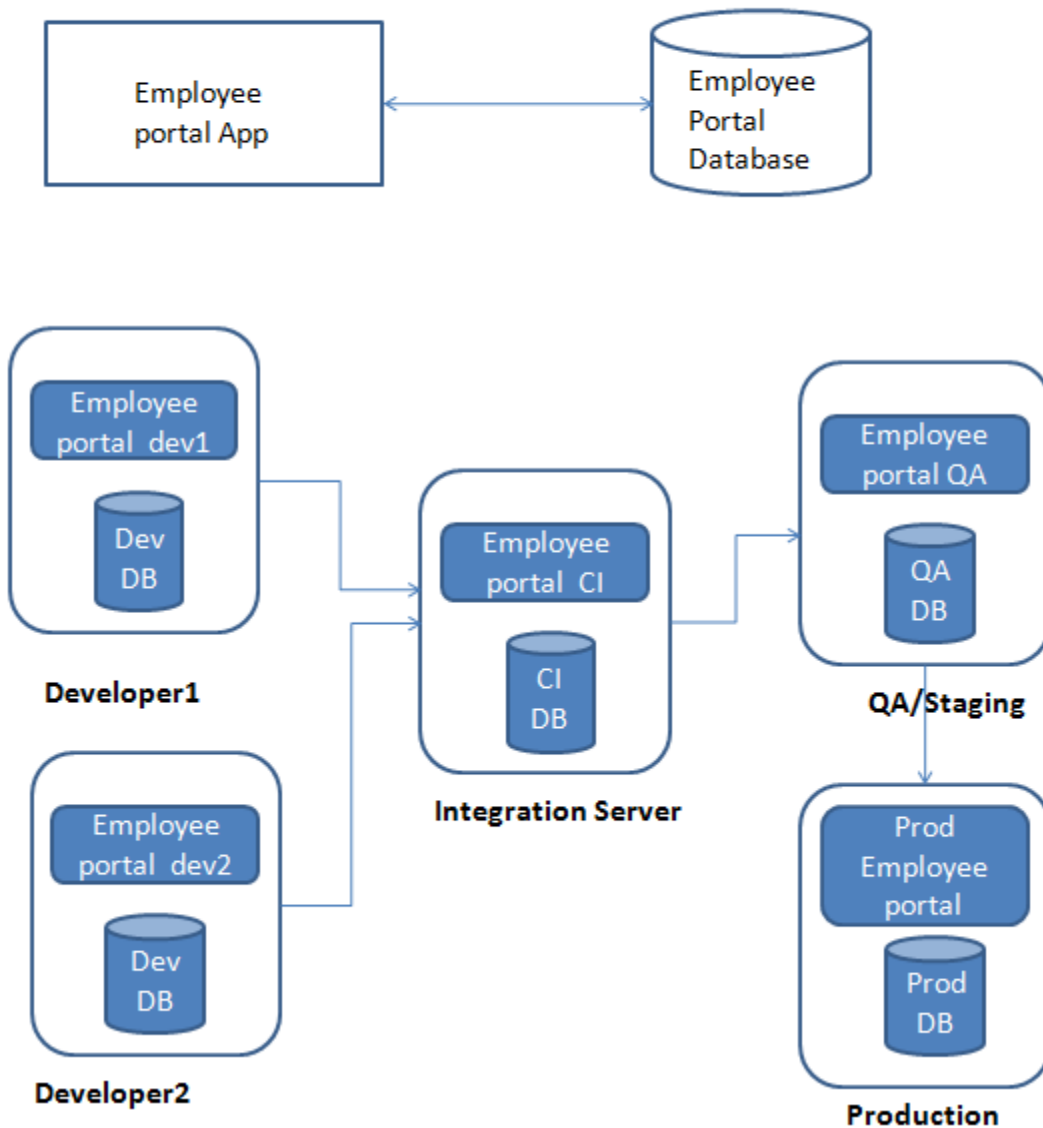# FLYWAY

-An open source tool for Database Migration

Why database migrations are required?

We have been pretty good at maintaining them at the application code level

- ➢ Version control
- ➢ Reproducible builds and continuous integration.
- ➢ Well defined release and deployment processes.

What about the database version control?

- ➢ What is the state of database on the instance?
- ➢ Has this script already been applied or not?
- ➢ How do you set up a new database from the scratch

Why we should Automate DB changes?

- ➢ To save time lost to co-ordination of manual DB changes for each environment.
- ➢ Greatly reduces application errors caused by missed DB changes.
- ➢ Better tracking of DB changes for each release of application code.
- ➢ To prevent errors resulting from duplicate database changes.
- ➢ Fits right into continuous integration paradigm using tools such as Bamboo, Jenkins, Maven
- ➢ To recreate a new database from scratch.

What is Flyway and how does it help in data migration?

Flyway is an open source database migration tool. It strongly favors simplicity and convention over configuration. It acts as version control for your database changes.

- ➢ Simple
- ➢ Focused
- ➢ Powerful
- ➢ Plain Old Sql
- ➢ Convention Over Configuration
- ➢ Auto-migration on startup
- ➢ Almost Zero required dependencies
- ➢ Fail fast
- ➢ Schema Clean

Supported databases: Oracle, SQL Server, SQL Azure, DB2, DB2 z/OS, MySQL (including Amazon RDS), Maria DB, Google Cloud SQL, PostgreSQL (including Amazon RDS and Heroku), Redshift, Vertica, Enterprise DB, H2, Hsql, Derby, SQLite, SAP HANA, solid DB, Sybase ASE and Phoenix