



ICRISAT LIMS



ICRISAT - LIMS



- Perspective : 2002 onwards



LIMS - 2004



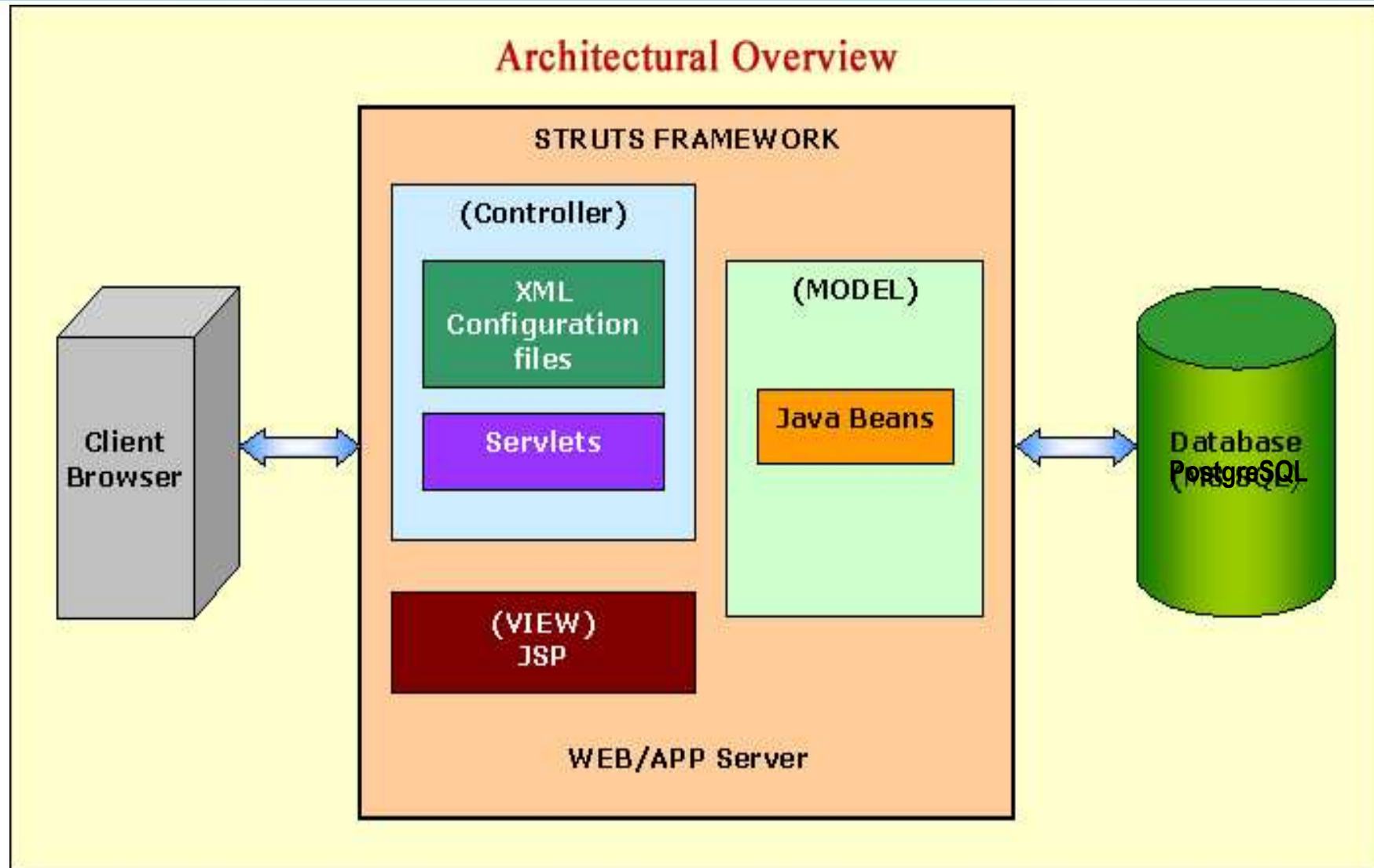
- **User driven**
- **Two tier application**
- **Application accessed on the intranet**
- **MS-SQL, ASP**



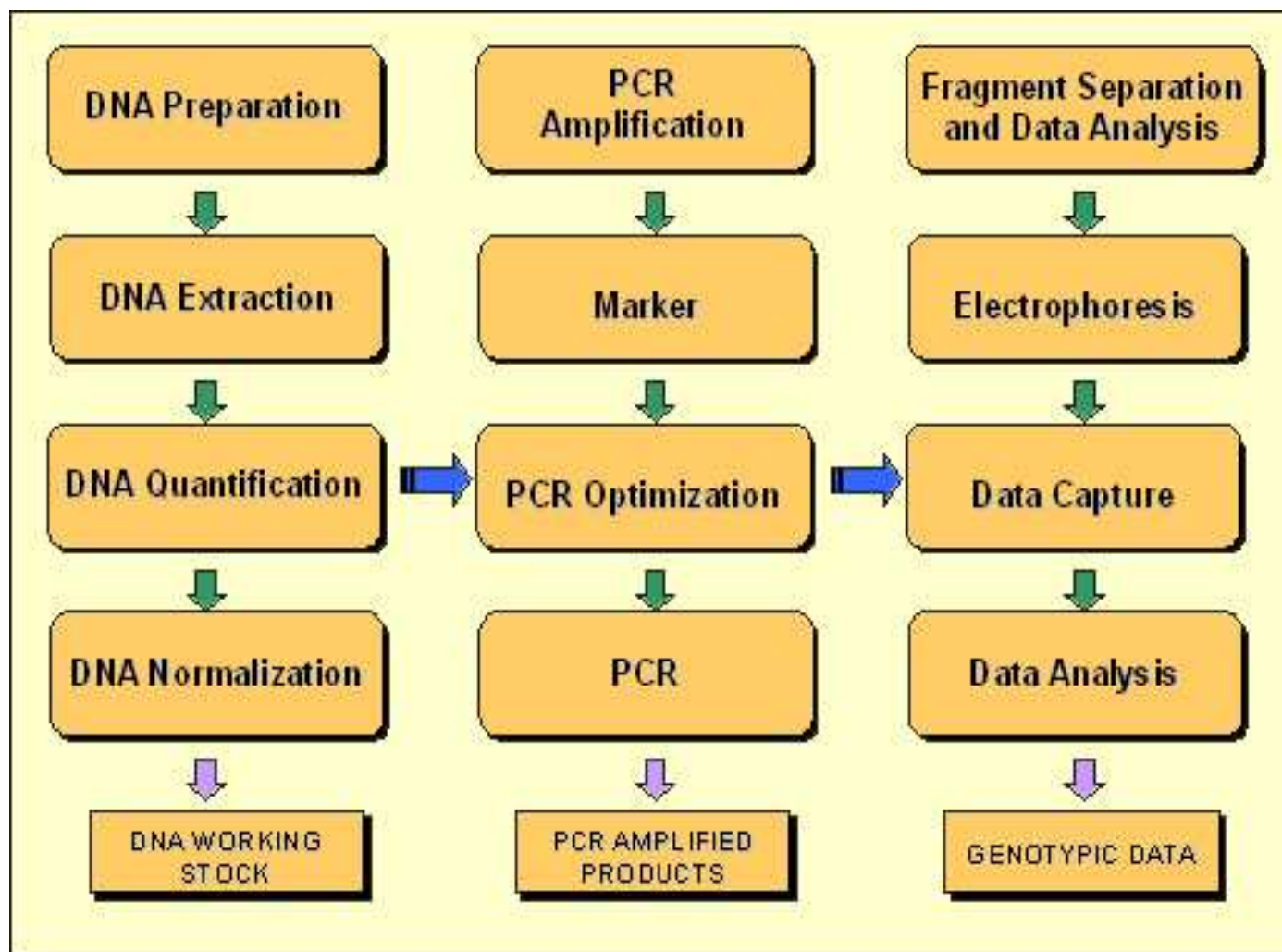
LIMS : 2005-2006



- Application evolves; component design
- Three tier application
- Open standards, open source
- GCP platform compliant



The genotyping workflow





What data?



- Methods, protocols, markers and accessions
- Input data at each step of the workflow
- Output files : Spectrophotometry, fluorescence machine output files, gel images, ABI sequencer output, Genotyper software output



Data quality



Data quality measures implemented:

- Validating not-applicable data elements at input
- Validating out of bounds data elements at input
- Step or sub-module completion date and time



Data quality



- Last correction posted date and time
- Automated binning of alleles
- Disallow corrections of raw output files



LIMS version for collaborative development



- Combines modules used at ICRISAT-Patancheru, ICRISAT-Nairobi and IITA-Ibadan