

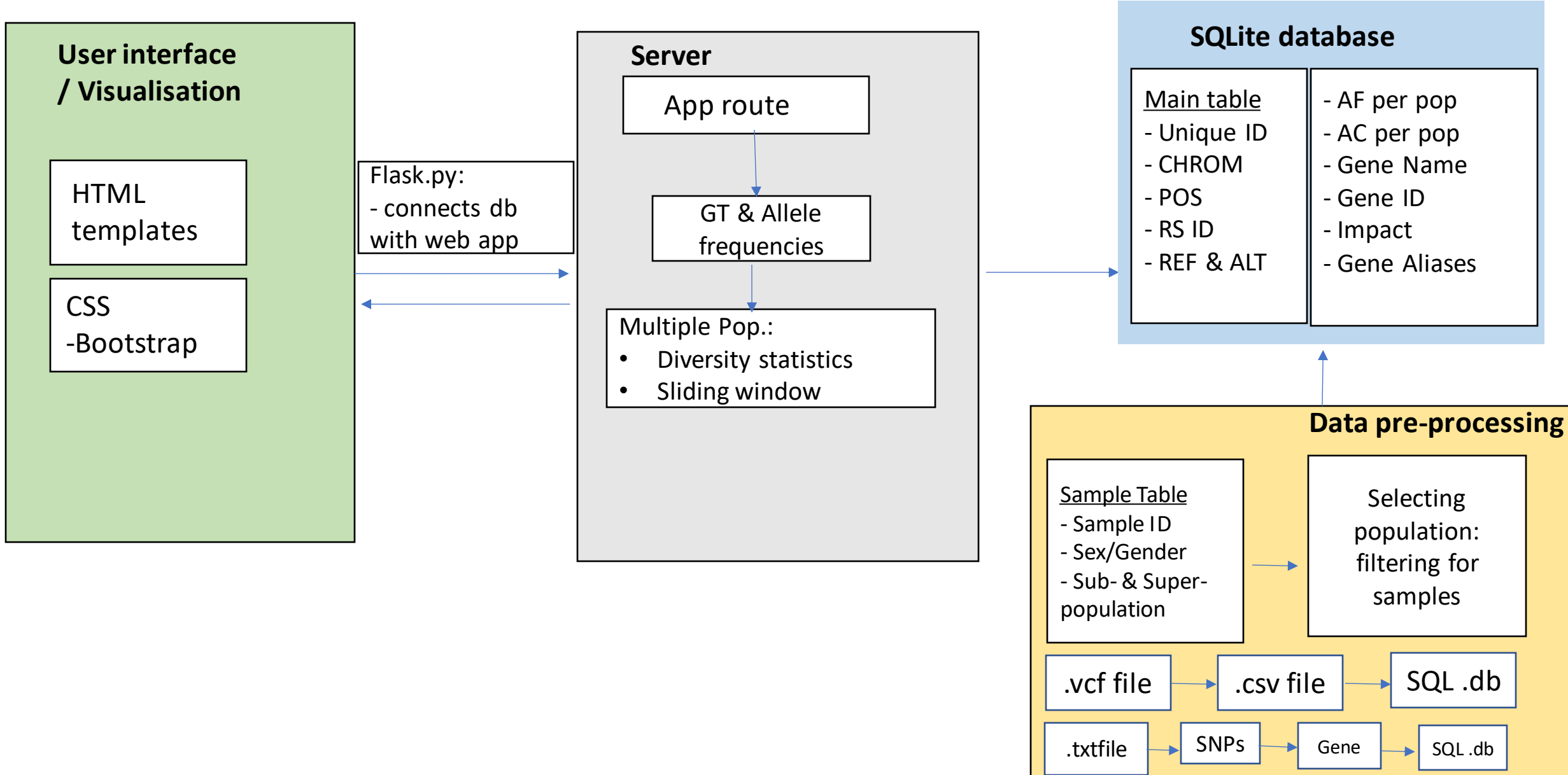
# BIO727P GROUP SOFTWARE PROJECT

Team Celine

Celine, Amanah & Gracia

17.02.2021

# SOFTWARE ARCHITECTURE



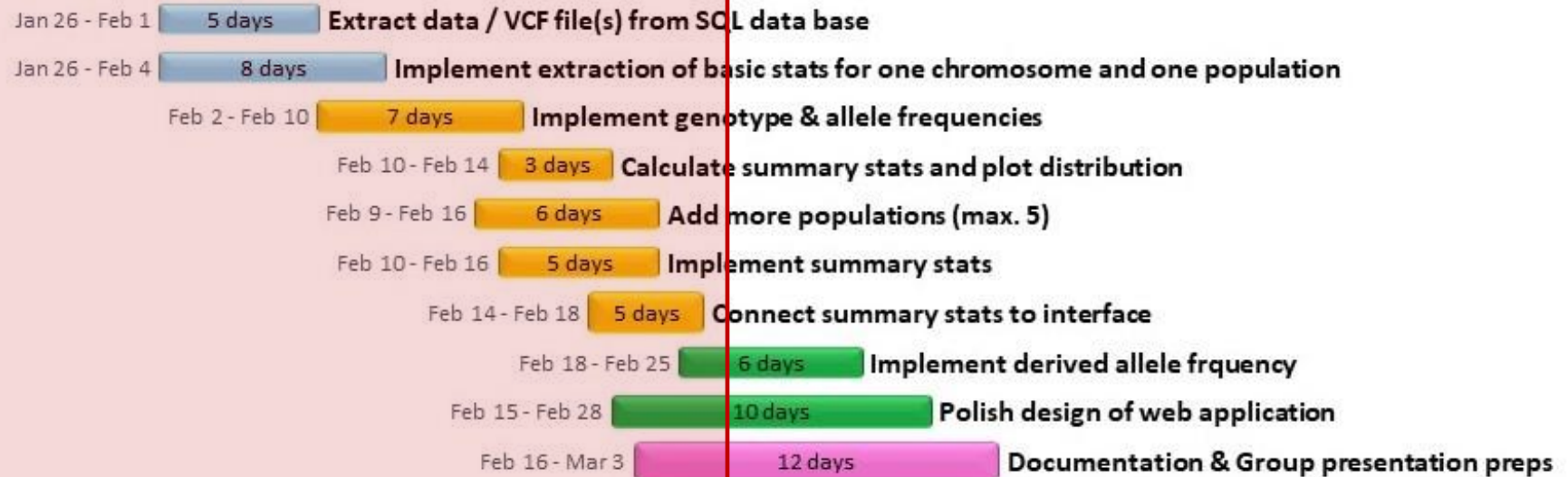


# COMPLETED TASKS (14/02 - 18/02/2022)

- ✓ Calculate summary statistics
  - ✓ Shannon Diversity, Tajima's D – *Celine*
  - ✓ Heterozygosity Index – *Gracia*
  - ✓ FST – *Amanah*
  - ✓ Sliding window & plots – *Amanah & Gracia*
- ✓ Gene Aliases added and combine data to one table – *Gracia*
- ✓ Documentation – *Amanah*
- ✓ Flask: added routes - *Celine*
  - ✓ html pages (search results and statistics/population selection)
  - ✓ Statistics added: shannon
- ✓ Add more populations – *group decision*
  - ✓ Extract population data and calculate gt & allele freqs – *Celine & Gracia*



# GANTT CHART UPDATE



2022

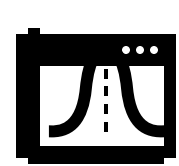
Jan

Feb

Mar

Today

2022



# NEXT WEEK'S MILESTONES (21/02 – 25/02/2022)

- **Connect summary stats calculation and sliding window for a query to web app – Celine**
- **Download text file – Celine**
- **Documentation – Amanah & Gracia**
- Polishing of web app (incl. Design → HTML templates) – Celine
- Derived chimpanzee allele frequency – Amanah

**==> making sure what we are producing makes sense!**



# QUESTIONS

1. Which types of genes should we keep? NcRNA (example: ENSG00000232073\*\*\*), pseudogenes, or only DNA genes?
2. Derived allele frequency → theta threshold?
3. Is it a problem that no rsIDs for all SNPs?
4. Documentation structure?
5. Any questions for us?