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Weekly Report Wednesday, 05.07.2017

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# Last Week

* **Documentation:** added [README](https://github.com/ravaan/GSoC-Strain_Diffrential/blob/master/README.md) on the github project with following topics:
  + Project Description
  + Installation and dependencies
  + File Structure
  + Useful Links
* **Tests:** Added a short [description](https://github.com/ravaan/GSoC-Strain_Diffrential/blob/master/test/unit/README.md) for the tests written, running them and their usage.
* **Code Comments:** Added [Docstring Formatting](https://www.python.org/dev/peps/pep-0257/) for the code, this is a standard commenting style which can be exported as code documentation at the end.
* **Matrix Translation:** defined a new function for generic translation of the bitset matrix.
  + **Testing:** To test the running of the function for large data I imported 100kb - 200kb data set with 200~ strains, but there were some problems running the data with the pipeline, the problem is not yet resolved and it’s the topic thing on today’s agenda.
* **Weekly Goals:**  As per feedback, I spent time in curating a weekly goals for this month seen below.  
    
  *Note: Once discussed with you i’ll add them to the README of the GitHub Repo.*

# Weekly Goals:

1. **July 1st Week (1st - 7th):** 
   * Implement translation, test against large dataset.
2. **July 2nd Week (8th - 14th):** 
   * Implement Reference change for bitset matrix
     1. Implement the algorithm (Both for SNP and INDEL)
3. **July 3rd Week (15th - 21st):**
   * Finish Implementing Reference Change .
   * Start working on the test suite.
     1. Discuss parameters for testing
     2. Write the code for testing (Working on a proper testing suite)
     3. Make the toy examples.
     4. Test for full dataset and toy examples.
4. **July 4th Week (22nd - 28th):**
   * Testing continues
   * Work on implementing heterogeneity.
     1. If any solution has been thought of implement it.
     2. Else work on a solution
     3. Implement the solution
5. **Work on Visualization begins.**

# Next Meeting Agenda Items

If we can meet on 8th we can discuss the translation testing and first week results.   
  
\*Rest discussed in chat\*