Ideas for genomics project: anonymise me behind my genome [SafeGenome\GenomeAnonymizer].

In a series of posts tagged with ideas-for-genomics-project [http://scalaakka.blogspot.com/search/label/ideas-for-genomics-project] I am describing ideas for business that can be build in area of genomics. If you like those ideas and you would like to join as an investor, co-founder or consultant please contact me at LinkedIn [https://pl.linkedin.com/pub/artur-stanek/a5/643/691] or just drop me an email, stanek.artur@gmail.com [mailto:stanek.artur@gmail.com] .
You may be also interested to check next post "Overcome legal limitations by moving computation to right location [http://scalaakka.blogspot.com/2015/11/idea-4-for-genomics-project-overcome.html] ", previous post "Sharing genome information [http://scalaakka.blogspot.com/2015/11/ideas-for-genomics-project-genome-broker.html] " or the bigger picture [http://scalaakka.blogspot.com/2015/10/ideas-for-genomics-project-diagram-of.html] .

Idea "GenomeAnonymizer" is about buying services and sharing genome file in an anonymous way.

Genome analysis market will be very sensitive when it comes to privacy and intimacy. To allow genome owners freely buy services on the market it can be crucial to make them anonymous.

Responsibility of this module will be to make owner as much anonymous as it can be. It means that if she/he will buy twice the same analyse in the same company using the same piece of genome then it should be extremely hard to detect that it is a the same client. No authorization codes, file dates and sizes should be the same.

You may say now that still some detection can be made based on piece of shared genome. Yes, I admit ... but even in this situation GenomeReductor [http://scalaakka.blogspot.com/2015/10/idea-2-for-genomics-project-allow.html] can try to make this harder by producing not exactly the same file twice. For example: if critical for analyse is a part of chromosome 2 starting form position x and finishing on y then GenomeReductor [http://scalaakka.blogspot.com/2015/10/idea-2-for-genomics-project-allow.html] module can randomly takes 2% before position x and 2% that is located after y.

Posted 5th November 2015 by Artur Stanek (kermitas)

Labels: bioinformatics, GenomeAnonymizer, genomics, ideas-for-genomics-project, non web find, SafeGenome

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