Georgia Tech Library (GTL) is a facility with nearly 16 000 members and has about 100 000 titles. After carefully reviewing the provided case description of what GTL is and what their interests are we have noticed there was no mention of a currently implemented software solution, which we have identified as the main problem the facility is currently suffering from. With the introduction of an application various requirements can be answered such as:

* What is the average loan time?
* Which book is the most frequently loaned out?
* What type of database would be fit for such a solution?
* How can lendable and not lendable books be easier to distinguish for the library staff?
* How can we automate the process of lending books?

This is but a small list of examples of statistical questions the library currently needs, although we were only given a set of functional requirements, we were not restricted, in the way we develop the solution. Although we tried to contact GTL we were sadly not given any response thus we were forced to use our own imagination to assume what was needed to be done and how.

In this report we will detail our solution to Georgia Tech Library’s problems, walking the reader through the different challenges we have encountered and how we have chosen our solution with the relentless research and persistence.