

Group DAB – Identifying Constraints

Ethical:

An ethical constraint on our project will arise as we develop reward methods for users. It will be important for us to ensure rewards given in our application do not have negative mental health repercussions for users. We will need to motivate users but not shame them if productivity is low. Additionally, we will need to be transparent towards users about account and productivity information being public unless privacy settings are turned on.

Security:

A security constraint on our project will come when collecting user data based on their profile (username + password). To avoid issues, an encryption scheme would need to be in place so a user's account cannot be accessed by an adversary that may steal data (whether it is sensitive or not) and build a profile on potential targets. This can be done by employing one of the built-in libraries for C# & ASP.NET.

Economic:

There is an economic constraint on our project as we are seeking to host a web application in the cloud; however, this incurs a cost. As we do not have a budget for this project, this could impact how long we can maintain the solution and the quality of solution we can provide while only using free credit from platforms like Azure or AWS (Amazon Web Services). We will need to make sure we minimize usage of these products as much as possible so as not to accidentally incur heavy costs. We will try to utilize budget tools built-in available on these platforms to limit this constraint.