We present a method to find the best buses to take when traveling between a starting point and a destination within Bangkok. To define the "the best bus route", as presented here, we must examine parameters such as distance and numbers of connections to make. We present the issues necessary to solve this search problem using A-star (A*) including data representation, search problem representation, and cost function definition. We have developed a web application using PHP as front-end development language and MySQL database as the back end to implement in a smaller problem consisting of 50 bus routes. The experimental results are presented where the user can pick any starting and ending point for destinations covered by the selected bus routes. The results indicate that the algorithm works well, scales well, and can be extended to include all bus routes within Bangkok.