**Enterprise Backend as a Service**

**(Code that writes code)**

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| A Project Report Presented to  The Faculty of the College of Engineering |
| San Jose State University  In Partial Fulfillment Of the Requirements for the Degree **Master of Science in Software Engineering** |
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**ABSTRACT**

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In the world where we have computers and world wide web, web applications have become more and more popular. There has been a constant decrease in installed applications with people mostly relying on web applications to get their work done. With constant innovations in the field of computer, we see tons of startups everyday and what better option do they have than reaching to million people with a web application of their own. Talking about web applications we usually have 1) Frontend: what a user can see on their screen while accessing that web application and 2) Backend: what frontend communicates with to process the users’ requests. Since the invention of RESTful web services, developers have relied on APIs to which frontend sends request to in order to get an appropriate response. RESTful APIs have become more of a standard in developing the backend and more often than not, they are pretty basic with only queries changing to get data from the database. This paper provides a solution to automate the development of backend and thus doesn’t need any expert knowledge other than the knowledge of the underlying database and hence even a non-developer or a developer with no prior experience in developing backend can easily get access to the backend. The solution discussed here will ask user to provide database details and will create the database along with the downloadable code for backend which will be ready to use to interact with the frontend and the database.

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