

To: Dr J. Andrew Deman, ENGL 119 Professor
From: Horatiu Lazu, Phase 2 Group Leader for Kotlin
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Today I will present the current status on the Development Phase of the Kotlin report and presentation. The group, composed of myself (Horatiu), Ashiq, Betty and Eric, has been progressing in an excellent manner throughout the past weeks and we are moving towards our goals. I will discuss 3 things - firstly what our team accomplished since the last status report, secondly an incident and its resolution related to work distribution, and lastly our plans as we move forward in this project.

Since our last status report, our team reconvened and filled in the gaps that our group member, Keefe, had originally planned to cover because he withdrew from school. In addition, we clearly outlined the individual sections that we would cover, provided rough bullets for the specific points targeted, and then we ensured the sections would flow smoothly by clearly discussing how they would fit together in a logical manner.

In terms of topics we will cover, they begin with an introduction to Kotlin which includes what Kotlin is at a high level with its significance and history. Afterwards, we do an analysis on the demand for Kotlin developers and how it compares to other similar languages from surveys on sites such as Stackoverflow. Later, we look at the market-share that Kotlin has so far and its predicted presence in the future. Following that, we will discuss common tools, libraries and the open-source community that is available for Kotlin developers. Soon after a deep dive is presented on specific language features such as coroutines, exception handling and operator overloading and how they compare with Java. After, real-world case studies on adoption by different companies including Uber and KeepSafe are reviewed, which includes large-scale benchmarks on performance and success stories of improved developer productivity. To end off, we will be discussing how to learn Kotlin, its relevance throughout post-secondary institutions and predicted trends for adoption both in industry and academia.

Regarding my second point, a problem we encountered was that the work distribution across the originally planned topics was not evenly distributed resulting in some members having excess points to cover and some little. For example, originally we anticipated for there to be data on different post-secondary institutions covering Kotlin as part of coursework, but instead there appears to be very little such data published around that topic. After our preliminary research, we restructured tasks so that every member has an equal opportunity to contribute and become an expert in the area.

For my last point, in the future, we will work towards the refinement phase, where we will combine our research into one cohesive report. Building on-top of our research attained at this stage, we are well equipped to remain on schedule and deliver an informative presentation on Kotlin at our to-be determined date.