

JKST 2014 Final Report to Sponsors

I foresaw a future where every human being, wealthy or impoverished, could connect with each other in productive ways that could make the world a better, and ultimately a more collaborative place. The idea of starting the Justin Kwik Summer Tech Service Program (JKST) was inspired from the countless camps that I attended not only as a part of school, but also as a separate curriculum that I believed would help me utilize my knowledge to contribute to the learning of the less fortunate youth. This JKST program quickly became a gossip amongst my friends and soon after, was concluded as a program that was bound to fail, given the large amounts of money and time that were needed to put this program into gear, but this didn't demotivate me.

Offering user friendly and a variety of *free* apps and software to expand the minds of students, the iMac became the main choice of computer that we planned to use. Prices reaching almost Rp. 14.000.000 a piece proved to be quite a struggle, but my dad and I, working together, decided that we were going to work on getting corporate sponsorship to gather up enough money to pay off the budget that we put together. We managed to get sponsorship for 10 iMac desktop computers and an additional Rp. 35.000.000 to support the program. We had to take into consideration the level of computer literacy of the students and the logistical support that the venue could provide, so we looked around for possible schools and we landed on one of the branches of Ora et Labora at Panglima Polim. Ora et Labora is a Christian private school that offers an Indonesian curriculum that we later on found out included the very bare basics of computer literacy, including a start on Microsoft Office software such as Word, PowerPoint, and Excel. We found that this school was the perfect platform that we could work with to implement the program. Our goal was to introduce the idea of a one-to-one style of working with the computer and collaborating with other students through the sharing of documents on Google Drive. The sole purpose of this project was to introduce a new style of learning and open the eyes of under-privileged children to the sheer amount of free available apps that could be used as tools for their learning and to slowly help migrate them into the technological era.

Commencing on the 10th of July on a Thursday, the JKST program was set to conclude exactly 2 weeks after the starting date, on the 24th of July, Thursday, but unfortunately due to fear of a riot breakout all over the city after the announcement of the presidential election results, our program was cut short and an excursion to Dunia Fantasy (Dufan) that was originally scheduled to be on the 24th, was moved to Saturday the 19th. We modified the last day's of instructions so students could get the most out of the program as originally planned. Although the school had already started their regular classes, they were willing to choose a select few from 3 different campuses to go ahead and participate in our special program. The class consisted of 10 girls and 12 boys, which made up a student body of 20 students and 2 assistants. Through out the whole program there was 100% attendance except for 1 student missing 1 day because he was sick. At the beginning of the program, we aimed to introduce the idea of Google Docs, and that with the availability of internet, the massive costs for installing and maintaining the various Microsoft Office software could be avoided by using free Google apps, such as the document, presentation, etc. Tying in with the use of Google Docs, we asked them to write an essay about who they are, what they are passionate about, and why. Then through the use of Google Slides (presentation software) they were given pointers on how to make a powerful presentation about themselves and how to present in front of class. We also taught them the fundamentals of typing and the

placement of the 10 fingers on the keyboard. We noticed that the majority of the students had bad habits that they developed from their tendencies to type with 2 fingers. To correct this, we showed them free websites and taught them the correct finger placements. Most students showed major improvements after only 2 days of practice. The middle of the next week, we switched gears and taught the children on how to create simple computer games by using websites that offered prefabricated objects that could be easily dragged and dropped onto a canvas to sketch out a game of their choice. We showed the children how they can make games like flappy bird and angry birds (very famous online games) by using these simple free software. Towards the end of the gaming lesson we introduced the students to free software that included coding and more complex means of creating programs and games, but we left this for the students to explore further on their own. As part of learning about free blogging, we educated the students on the 4 different types of pollution (sound, water, air, ground), and to research solutions to create a campaign for a cleaner Jakarta. Together with all these new technological skills, we taught the students on how to properly cite their research sources so as to avoid plagiarism, to be confident in their presentation skills, how to gain self-esteem and show leadership, and how to collaborate effectively amongst each other. At the end, all of the students' computer literacy level had improved from solely a basic Windows capable to a more diverse Apple computer advanced user. As part of our curriculum, these students are expected to become the agents or seeds of change by passing their newly found knowledge over to their peers at their respective campuses.

Integrated into the intensive teaching, we arranged for various after class activities geared towards team building such as footsal, angklung playing, traditional board games, basketball, and for our activity on the final day, an excursion to Dunia Fantasy (Dufan) at Ancol.

Everyday students were asked to fill out a quick, anonymous, electronic questionnaire through SurveyMonkey regarding their opinion on how useful this program was for their learning and how effective our teaching methods were. Through these surveys we can confidently conclude that this program was a total success in exposing these students to the availability of free powerful resources available on the internet and how to effectively use and apply them as part of their learning.

Our project completed on 6th August 2014 when we visited all 3 campuses of Ora et Labora to give out certificates of participation to all the students. Specifically at the BSD campus, we took inventory of the 10 iMac computers that were stored appropriately and pending for the new computer room to complete by October 2014.

Attached for your reference:

1. Final Report ("JKST2014_Final Report")
2. Lesson Plan / Curriculum ("JKST2014_LessonPlans")
3. List of Students ("JKST2014_Participants Data")
4. List of free apps / resources available on the web given to students ("JKST2014_Web Free Apps")
5. Survey Result ("JKST2014_SurveyMonkey_Summary")
6. Pictures (including students comments) of JKST Highlights ("JKST2014_Pics Collage")
7. Formal receipt of donation ("JKST2014_Receipt") - original will be mailed separately