Assignment 3 – Technology Implementation Plan

Use of Artificial Intelligence-Powered Language Learning Platform (e.g., Babbel) to Increase Achievement in English in Bayonne High School Located in Bayonne, New Jersey

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In recent years, the growing focus on standardized testing has put considerable pressure on schools to boost student performance, especially in core subjects such as English. To tackle the identified gap in English language proficiency among incoming students, a comprehensive plan is being proposed. This plan aims to utilize technology to improve instruction and support diverse learners, emphasizing the adoption of a specific technological tool while detailing its advantages, implementation methods, and evaluation strategies.

Technology Implementation Plan

Technology Selection: Artificial Intelligence-Powered Language Learning Platform (e.g., Babbel)

Research has consistently highlighted the effectiveness of Artificial Intelligence-driven language learning platforms in enhancing language proficiency. For instance, Devasena (2024, p. 18) found that English learning has become more engaging, interactive, personalized, and efficient for students thanks to Artificial Intelligence-driven educational tools. According to Devasena (2024, p. 15), Duolingo and Babbel are widely-used Artificial Intelligence-Powered platforms suited for English language classrooms. Both leverage machine learning to create personalized learning experiences and offer tools for skill development.

Duolingo, a free app, includes English courses with gamified features such as points, streaks, and levels to engage learners. It provides exercises in reading, writing, speaking, and listening, along with instant feedback and opportunities for social interaction. Babbel, a subscription-based platform with data privacy, offers structured courses in various languages, including English, with diverse practice activities, personalized feedback, and speech recognition for pronunciation training. Students utilizing these platforms achieved notable improvements in reading, writing, speaking, and listening skills compared to peers receiving traditional instruction (Devasena, 2024, p. 15). For this particular technology implementation plan, the widely-used Artificial Intelligence-Powered platform Babbel is used. The company operating a subscription-based language learning software and e-learning platform Babble has one of its offices in New York, United States. The reason for using the widely-used Artificial Intelligence-Powered platform Babbel is that Devasena (2024, p.14) emphasized that Artificial Intelligence technology is

transforming English education by supplying to diverse student interests and learning styles. Its ability to mimic human thought and reasoning enriches the classroom experience.

Non-native students often face communication barriers that can limit the effectiveness of traditional teaching methods. As a result, the rapid progress of Artificial Intelligence (AI) fosters innovative approaches to education. While multimedia tools have been widely used, they sometimes emphasize content delivery at the expense of teacher-student interaction, leading to passive learning and reduced opportunities for real-time feedback. Advanced AI such as Babbel provides highly accurate and personalized instruction, driving innovation in English teaching. It enhances language input and output, seamlessly integrates learning into everyday life, and raises educational standards in linguistically complex environments.

Online platforms like Babbel are increasingly dominating the field of language learning. Cloud-based platforms that integrate features such as natural language processing, crowdsourcing, gamification, automatic speech recognition, speech generation, and AI writing assistants are among the most popular tools for young learners (Pokrivcakova, 2019, p. 142). Examples of such platforms include Babbel, Duolingo, Chatbots, Busuu, Memrise, Magiclingua, and others.

Babbel is an Artificial Intelligence-powered language learning platform that can provide personalized language instruction, adaptive exercises, and real-time feedback. This technology can be particularly beneficial for English Language Learners (ELLs) and students with diverse learning needs who are studying at Bayonne High School located in Bayonne, New Jersey. Furthermore, Bayonne High School can benefit significantly from the implementation of Artificial Intelligence-Powered Language Learning Platform Babbel to Increase achievement in English. Babbel designs a comprehensive privacy policy that it updates time to time by

publishing a new version on its website. Its offers a guarantee for protecting data of at students, teachers and staff of Bayonne High School.

Need

Personalized Learning

Traditional classrooms settings often face challenges in addressing the diverse needs of students (Devasena, 2024, p.14). Babble is an online platform. Implementing Artificial Intelligence-Powered Language Learning Platform Babble helps to overcome these challenges by tailoring learning to the needs of the students. The platform Babbel accommodates students with disabilities, including visual and auditory impairments.

Immediate Feedback

Artificial Intelligence-driven platforms like Babbel offer instant corrections on pronunciation, grammar, and vocabulary to its user. This feature helps students at Bayonne High School to improve their learning of English.

Engaging Content

Interactive exercises and games enhance the enjoyment and effectiveness of language learning with Babbel. Gamification is a current trend in K-12 and when used effectively to teach English can have a positive impact on students. Babbel incorporates some gamification features such as Word Trax and Phrase Maze that can engage students at Bayonne High School while they are learning English.

Implementation of Artificial Intelligence-Powered Language Learning Platform Babbel

Technology Department

The selected Artificial Intelligence-Powered Language Learning Platform Babbel is an appropriate platform that aligns with curriculum standards and student needs. Ensuring sufficient

hardware and network capacity to support the platform is important. For training**,** providing technical training to staff on platform installation, maintenance, data privacy, and troubleshooting is part of the implementation of Artificial Intelligence-Powered Language Learning Platform Babbel at Bayonne High School.

A representative from the company operating a subscription-based language learning software and e-learning platform Babbel will be asked to train Bayonne High School's Information Technology staff in-person or virtually for platform access, troubleshooting, and network connectivity. Bayonne High School Information Technology Department can contact Babbel support by starting a chat on their website at any time, whether it has a product question or needs help from their support team. This helps greatly to deal with technical issues.

Administration

Securing funding for platform licenses, hardware, and professional development is an important aspect of the implementation of Artificial Intelligence-Powered Language Learning Platform Babbel at Bayonne High School. Securing funding for technology implementation requires a multifaced approach.

First, institutional budget re-allocation helps to fund the technology implementation because the AI-driven language learning platform Babbel has a long-term cost efficiency and benefits like improved student performance on standardized tests and decreased operational expenses. Some budget adjustments are needed to relocate funds towards the implementation of Artificial Intelligence-Powered Language Learning Platform Babbel at Bayonne High School.

Second, since the AI-powered language learning platform Babbel aligns with grant priorities, including promoting student success, advancing equity, and fostering technological innovation,

prospective grant funders will be identified for grant proposal. Collaborations will be established with other institutions or organizations to secure funding for the technology implementation.

Third, public-private partnerships by Illustrating the mutual benefits of collaboration, such as increased visibility, community engagement, and shared resources. Also, by identify potential partners, negotiating agreements, and developing joint projects the public-private partnerships help secure funding for the technology implementation at Bayonne High School.

Finally, strategic use of tuition revenue. Investing in Artificial Intelligence-Powered Language Learning Platform Babbel can enhance the student experience, leading to increased satisfaction and enrollment. Hence, the use of tuition revenue at Bayonne High School to fund the technology implementation is a good investment in human capital. Continuous analysis of tuition trends, and development of a clear communication plan helps to explain how tuition funds will be utilized.

Teachers

The implementation of Artificial Intelligence-powered language learning platform Babbel requires professional development. Bayonne High School in partnership with the company operating a subscription-based language learning software and e-learning platform Babble will provide comprehensive training to teachers on how to effectively integrate the Babbel platform into their lesson plans and daily routines. Representatives and technical support from the company operating a subscription-based language learning software and e-learning platform Babbel will be hired to train Bayonne High School's teachers on how to use Babble platform even though the platform is easy to use.

Furthermore, collaboration will help in the realization of this plan. By fostering a collaborative culture among teachers, they will share best practices and resources. Teachers at

Bayonne High School are encouraged to used Babbel's resources such as peer support to speak with fellow instructors about best practices and how they use the tools in their course.

Cost Analysis

This cost analysis estimates the potential expenses involved in implementing Babbel, an AI-driven language learning platform, at Bayonne High School to improve English language proficiency and increase achievement in English based on the incoming students' scores on standardized testing. It takes into account factors like licensing fees, hardware needs, professional development, and technical support.

Estimated Costs

Licensing Fees

Babbel offers tiered pricing models based on the number of users and features required. The estimated cost of Babbel is $50 per student per year (adjust based on selected tier and negotiated discounts). Bayonne High School in New Jersey has 2,832 students enrolled for the 2023–2024 school year, 223 classroom teachers, and 12.70 student/teacher ratio. The licensing fees are $141,600 ($50 x 2,832 students). The company operating a subscription-based language learning software and e-learning platform Babbel offers up to 50% off. With the discount of 50%, the estimated cost of licensing for Bayonne High School is $70,800 per year.

Hardware and Software

For device requirements, students can use devices such as chrome books offered by Bayonne High School to access Babbel platform. They are also encouraged to use their own smartphones, tablets, or laptops to access Babbel after downloading the application on their devices or accessing Babble's website. Minimal additional hardware may be needed for school-based access or specific classroom activities.

Professional Development

Teacher training is crucial in implementing the platform Babble. To effectively integrate Babbel into the curriculum, teachers will require training on the platform's features, pedagogical approaches, and data analysis. Training teachers to use the Babbel app comes at no additional cost, as it is included in a standard Babbel subscription. Educators frequently benefit from substantial discounts, enabling them to access the app for as little as $36 for a six-month subscription, representing a 60% discount. As a result, the training cost is effectively the price of the discounted subscription. The estimated cost for teacher training is $8,028 ($36 x 223 classroom teachers) for six-month subscription. Since a representative from the company operating a subscription-based language learning software and e-learning platform Babbel will be asked to train Bayonne High School's teachers in-person or virtually by giving them an overview of the platform Babbel and its benefits on improving teaching and learning of English, adjust training teachers cost can be $10,028 based on training duration, trainer fees, and travel expenses.

Technical Support

Bayonne High School community can contact Babbel support by starting a chat on their website at any time, whether it has a product question or needs help from their support team. Bayonne High School Information Technology staff may also need to provide technical support for platform access, troubleshooting, and network connectivity.

Needs Assessment: Implementing Babbel at Bayonne High School

The success of the AI-powered language learning platform Babble will be assessed through a variety of measures. The needs assessment aims to identify the specific needs of English language learners (ELLs) and other students at Bayonne High School who could benefit from the

implementation of Babbel. By addressing these needs, Bayonne High School can improve English language proficiency and overall academic achievement.

Identified Needs

Personalized Learning

2,832 students at Bayonne High School require individualized instruction to meet their specific language learning needs. As a result, Babbel's AI-powered technology can adapt to each student's pace and learning style, providing tailored lessons and exercises based on the needs of the students at mentioned previously.

Engaging Content

Traditional language learning methods may not always be engaging for all students. Babbel offers interactive lessons, real-life scenarios, and cultural insights, making language learning more enjoyable and effective. Its gamification features (Word Trax and Phrase Maze, for instance) engage students at Bayonne High School in their learning of English.

Increased Practice Opportunities

Students need ample opportunities to practice speaking, listening, reading, and writing in English. Babbel provides a variety of exercises, including speech recognition and writing practice, to enhance language skills. Bayonne High School students can take advantage of the opportunities offered by Babbel to learn English effectively to be proficient and perform better at standardized testing.

Data-Driven Instruction

Teachers need data to inform their instruction and identify areas where students may need additional support. Babbel's analytics tools provide insights into student progress, allowing teachers to tailor their instruction accordingly.

Cultural Awareness

Understanding different cultures is essential for effective communication. Babbel incorporates cultural context into its lessons, helping students develop intercultural competence. In this era of globalization, students at Bayonne High School need to learn about other cultures to navigate this integrated world, which is becoming a small village.

Conclusion

Introducing the Artificial Intelligence-powered language learning platform Bubble will enable Bayonne High School in Bayonne, New Jersey to offer students a more tailored and engaging approach to language education. This innovative technology holds great promise for enhancing English proficiency, especially among diverse learners, English Language Learners (ELLs), and students with special needs. This technology implementation plan establishes clear policies and procedures for Artificial Intelligence-Powered Language Learning Platform Babbel usage, data privacy, and accessibility. It communicates the benefits of the platform to parents, staff, and students. With thoughtful planning, strategic implementation, and ongoing evaluation, Bayonne High School can leverage this tool to pave the way for a brighter future for all students.

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