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Intelligent Reporting System (IRS)

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1.0 EXECUTIVE SUMMARY

Intelligent Reporting System (IRS) is the product proposed in this project. This innovative and creative technology-embedded product works by linking software application with earpiece electronic device to create new reporting style in healthcare managerial task.

IRS use an artificial intelligence technology which create a conversation between a men (healthcare professionals) with integrated communicative software system for medical reporting purposes. IRS consists of two main products that work together known as (1) Earpiece Operating Device(EOD) and (2) Artificial Intelligence Software (ROBO).

This system will detect human's voice or command and convert it into words inside technology devices such as computer, smartphone and/or tab. It is designed to make reporting style among healthcare professionals become easier, faster and comprehensive.

As of today, there are only two traditional methods used in reporting styles in healthcare system, (1) handwriting report and; (2) typing report in PCs, and the introduction of this breakthrough technology is totally upgrading reporting style to the next level.

This product exclusively focusses on healthcare practitioners to create better work environment by offers;

- a) healthy work reporting behaviour;
- b) efficient worktime and workload distribution for reporting purposes;
- c) comprehensive access to patient health report and;
- d) Improves and standardize reporting and data collection.

IRS is very convenient to its user as it is portable and light weighted. This product also emphasizes on sophisticated and ergonomic-friendly design to offer comfort and modern characteristic.

In addition, the target markets for this product is to all types of healthcare institutions in Malaysia (private or government institution). Specifically, this product has been planned to cater all types of reporting requirement from different healthcare professionals such as medical officers/specialist, rehabilitation providers, diagnostic technician and pharmacist.

Our product has step up in terms of its edge when compared to the current medical reporting styles which is handwriting that has become the main option among healthcare provider and has been utilize in current practice for decades.

In comparison, currently there is no other product offers this type of artificial technology in medical reporting purposes. Our product wins more in terms of its advantages as it is more comprehensive, user-friendly, and ergonomic-friendly. Although traditional reporting styles has been established among healthcare practitioners, many of them reported that it has some weaknesses.

Overloading managerial task in healthcare practice such as written documentation might cause healthcare professionals to need more time in reporting and may cause excessive hand fatigue and pain, and soft tissue injuries due to repetitive movement and long period of handwriting.

In conclusion, this new technology is believe to bring an impact in the field of documentation and reporting style in healthcare system, and later will change the landscape of work environment to be more efficient and effective. This project would also hope to be the pioneer in applying artificial intelligence technology in report documentation.