# ABSTRAK

Achmad Yunus. 2020. PERANCANGAN APLIKASI TATA KELOLA KERJASAMA MENGGUNAKAN METODE AGILE (STUDI KASUS : STIKI MALANG). Program Studi Teknik Informatika (S1). STIKI-Malang. Pembimbing : Dr. Evy Poerbaningtyas, S.Si, M.T, Co.Pembimbing : Addin Aditya, S.Kom., M.Kom

Kata Kunci : STIKI, Agile, SCRUM, Tata Kelola, Kerjasama.

Sekolah Tinggi Informatika dan Komputer Indonesia (STIKI) Malang merupakan perguruan tinggi di bawah naungan Yayasan Nusantara Indonesia. STIKI Malang mempunyai visi menjadi satu dari sepuluh perguruan tinggi ICT berkualitas di Indonesia dan diakui di dunia Internasional. Dalam perjalanan mencapai visi tersebut STIKI Malang mengadakan beberapa kerjasama. Kerjasama merupakan kesepakatan antara perguruan tinggi di Indonesia dengan pihak lain, baik di dalam maupun di luar negeri. Tata kelola kerjasama di STIKI Malang meliputi pengajuan kerjasama, pelaporan kerjasama, pelaporan implementasi, serta rekapitulasi.

Namun, dalam pelaksanaanya STIKI Malang mempunyai banyak kendala seperti tidak terlapornya kerjasama dari beberapa unit dan juga tidak terlapornya beberapa kegiatan implementasi. Hal ini menimbukan masalah berupa hambatan pelaporan keseluruhan ke pihak eksternal. Berdasarkan permasalahan tersebut dibuat sebuah aplikasi tata kelola kerjasama STIKI Malang menggunakan metode Agile yang berisikan proses pengajuan hingga pelaporan dan rekapitulasi data kerjasama dan implementasi yang terpusat berbasis web yang dapat diakses oleh unit kerja.

Penelitian dilakukan menggunakan Agile SCRUM. Analisis kebutuhan serta merekayasa kebutuhan merupakan awal dari proses penelitian yang dilakukan dengan cara melakukan wawancara dan memberikan hasil 4 user story yang menghasilkan product backlog sebanyak 30 dan terbagi pada 4 sprint. Pengembangan aplikasi ini menggunakan kerangka kerja CodeIgniter, HTML, CSS, dan Javascript. Sistem selanjutnya diuji menggunakan pengujian validasi menguji 30 product backlog dan serta 30 kasus uji pada setiap sprint dan menghasilkan nilai 100% valid.

# ABSTRACT

Yunus, Achmad. 2020. COOPERATION GOVERNANCE APPLICATION DESIGN USING AGILE METHOD (CASE STUDY: STIKI MALANG). Informatics Engineering Study Program (S1). STIKI-Malang. Advisor: Dr Evy Poerbaningtyas, S.Si, M.T, Co. Advisor: Addin Aditya, S.Kom., M.Kom.

Keywords: STIKI, Agile, SCRUM, Governance, Cooperation.

The Indonesian College of Informatics and Computing (STIKI) Malang is a university under the auspices of the Indonesian Archipelago Foundation. STIKI Malang has the vision to become one of ten quality ICT universities in Indonesia and recognized internationally. On the way to achieving this vision, STIKI Malang held several collaborations. Cooperation is an agreement between universities in Indonesia and other parties, both at home and abroad. Cooperation management at STIKI Malang includes submission of cooperation, reporting of cooperation, reporting of implementation, and recapitulation.

However, in its implementation, STIKI Malang has many obstacles, such as not reporting cooperation from several units and also not reporting some implementation activities. This implementation raises a problem in the form of barriers to comprehensive reporting to external parties. Based on these problems, a collaboration management application for STIKI Malang was created using the Agile method which contains the submission process to reporting and recapitulation of web-based centralized collaboration and implementation data that can be accessed by the work unit.

The research was conducted using Agile SCRUM. Analysis of needs and engineering needs is the beginning of the research process carried out by conducting interviews and providing the results of 4 user stories that produce 30 product backlogs divided into four sprints. This application development uses the CodeIgniter framework, HTML, CSS, and Javascript. The system is then tested using validation testing, testing 30 product backlogs and 30 test cases for each sprint and producing a value of 100% valid.