

Presentación del TFM “Aplicación de ingeniería de dominio para la generación de dashboards personalizados”

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Resumen

Presentación del TFM “Aplicación de ingeniería de dominio para la generación de dashboards personalizados” en el programa Máster Universitario en Ingeniería Informática de la Universidad de Salamanca, defendido el 24 de julio de 2018.

Los paneles de información (*dashboards*, en inglés), juegan un papel clave en el proceso de análisis y visualización de datos sobre un tema o dominio específico. En esencia, los *dashboards* muestran información y permiten a los usuarios generar conocimiento y llegar a conclusiones para poder realizar una toma de decisiones con una consistente base informativa. Sin embargo, los usuarios finales pueden presentar una serie significativa de necesidades que difieren entre sí, incluyendo la información mostrada, características de diseño o incluso funcionalidades. Aplicar un enfoque de ingeniería de dominio (dentro del paradigma de las líneas de productos *software*) trae consigo valiosos beneficios, permitiendo producir *dashboards* personalizados y adaptados a los requisitos particulares de cada usuario (o grupo de usuarios) implicado mediante la identificación de similitudes y puntos de variabilidad de cada producto que podría ser parte de la línea. A través de la parametrización de características y la configuración de los componentes de presentación y fuentes de datos, es posible obtener una línea de productos *software* de paneles de control, donde podrán irse variando los diversos componentes que conforman el panel, así como sus funcionalidades o fuentes de datos. La creación de esta línea de productos puede llegar a incrementar la productividad, la mantenibilidad y la trazabilidad en cuanto a la evolución de los requisitos de los *dashboards*, junto a otros beneficios. Para validar esta aplicación, se ha realizado un caso de estudio en el contexto del Observatorio de Empleabilidad y Empleo Universitarios, donde los usuarios (universidades españolas y administradores), podrán controlar sus propios *dashboards* para explorar datos sobre la empleabilidad y el empleo de sus graduados. Dichos *dashboards* serán generados automáticamente a través de un lenguaje específico de dominio (DSL), donde se podrán especificar los requisitos de cada usuario, y un generador de código basado en plantillas.

Palabras clave

Líneas de productos software; *Dashboards*; Paneles de control; Generación de código; Visualización de datos; Sistemas de información

Enlace a la presentación

<https://goo.gl/28oXrc>

Enlace a la memoria del TFM

<https://goo.gl/tgiHjd>

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