Fostering Self-regulated Learning with Tools that support Coaching Relationships

Mark Moody
University of Virginia School of Medicine

Coaching is increasingly being used in educational programs as an approach to support students' learning and development. At UVA, students meet with coaches regularly during the pre-clerkship, clerkship and post-clerkship phases of the curriculum. To support and facilitate coaching interactions during the clinical phases of the curriculum, we created new tools to provide:

- Access to student performance data in formats that are meaningful to learners and coaches.
- A structure & process to promote students' skills as self-regulated learners and to facilitate coaching conversations that result in the creation of useful, individualized learning plans.

The Coaching Program was implemented in July 2017. The following applications/solutions were developed and deployed to support the program:

- Data visualizations of learners’ clinical performance - OSCE assessments, clerkship grades and narratives, as well as data from Entrustable Professional Activities assessments.
- A simple scheduler/calendar to manage logistic and administrative issues.
- Learning Plans to facilitate students’ reflective dialog, capture discussions of coaching meetings, and document individualized learning plans in a consistent manner.

Selected References


Zimmerman BJ. Self-Regulated learning and academic achievement: An overview. Educational Psychologist. 1990; 25:1, 3-17. DOI: 10.1207/s15326985ep2501_2

Technology

- Progressive web applications: .NET, TypeScript
- Dashboards: ChartJS, Plot.ly, Python, Pandas, Flask
- Microsoft SSIS
- Development methodology: Lean DevOps

Acknowledgements

Dr. Maryellen Gusic for her expertise, vision, and leadership of several initiatives at UVA’s School of Medicine – including the Coaching Program.

Michael Szul for his leadership of the software development team at the School of Medicine.