

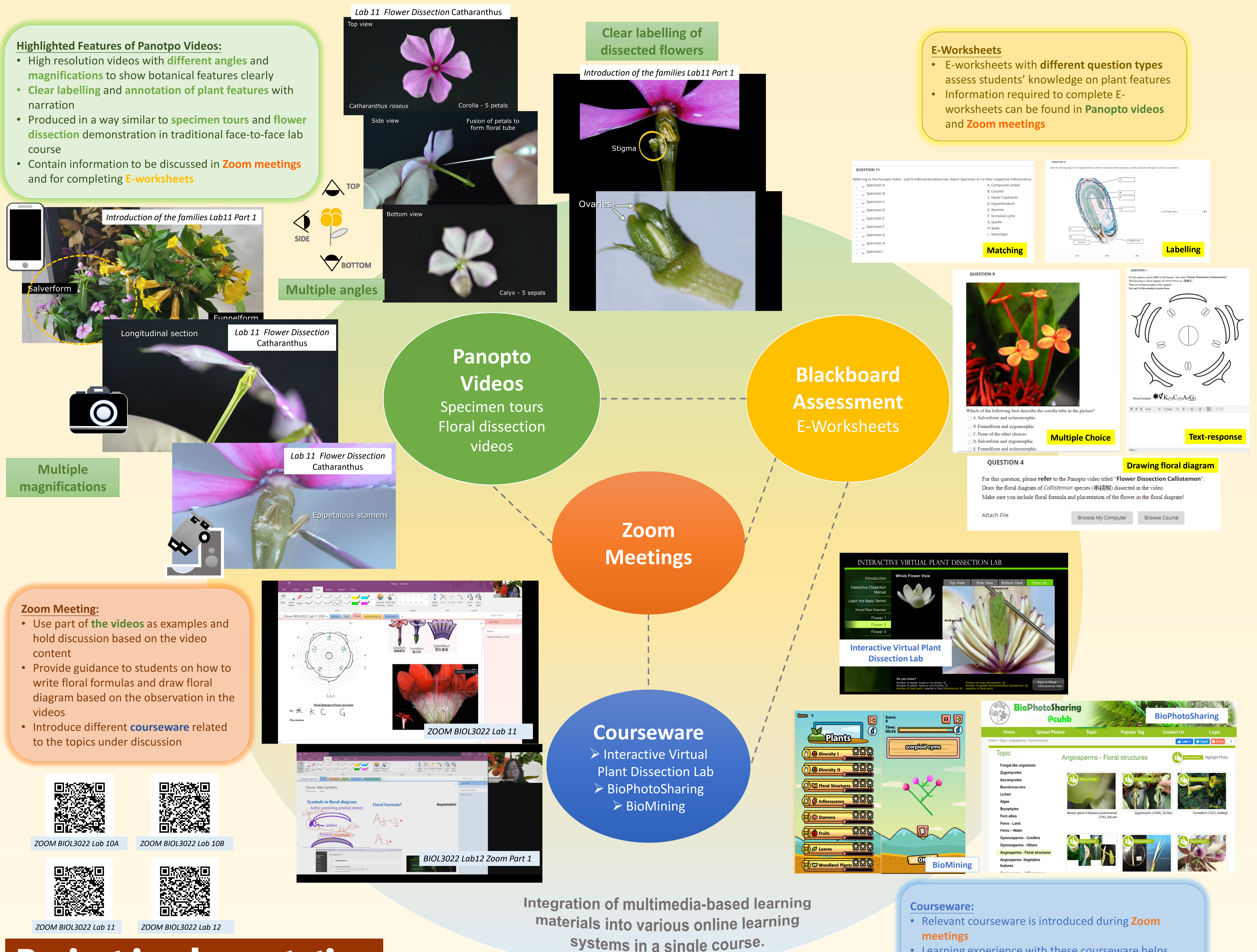
Development of a Prototype for preparing an Online Laboratory Course

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Introduction

Our project aims to

- provide the **online learning experience with quality comparable to the traditional lab teaching** by producing **detailed labelled videos with narration** which can be used during **ZOOM teaching** and also as stand-alone learning materials that students can go through at their own pace;
- serve as a **prototype** for preparing an online lab course and **integrating** multimedia-based learning materials into various online learning systems, including **Zoom, Panopto, Blackboard** and various **courseware**.



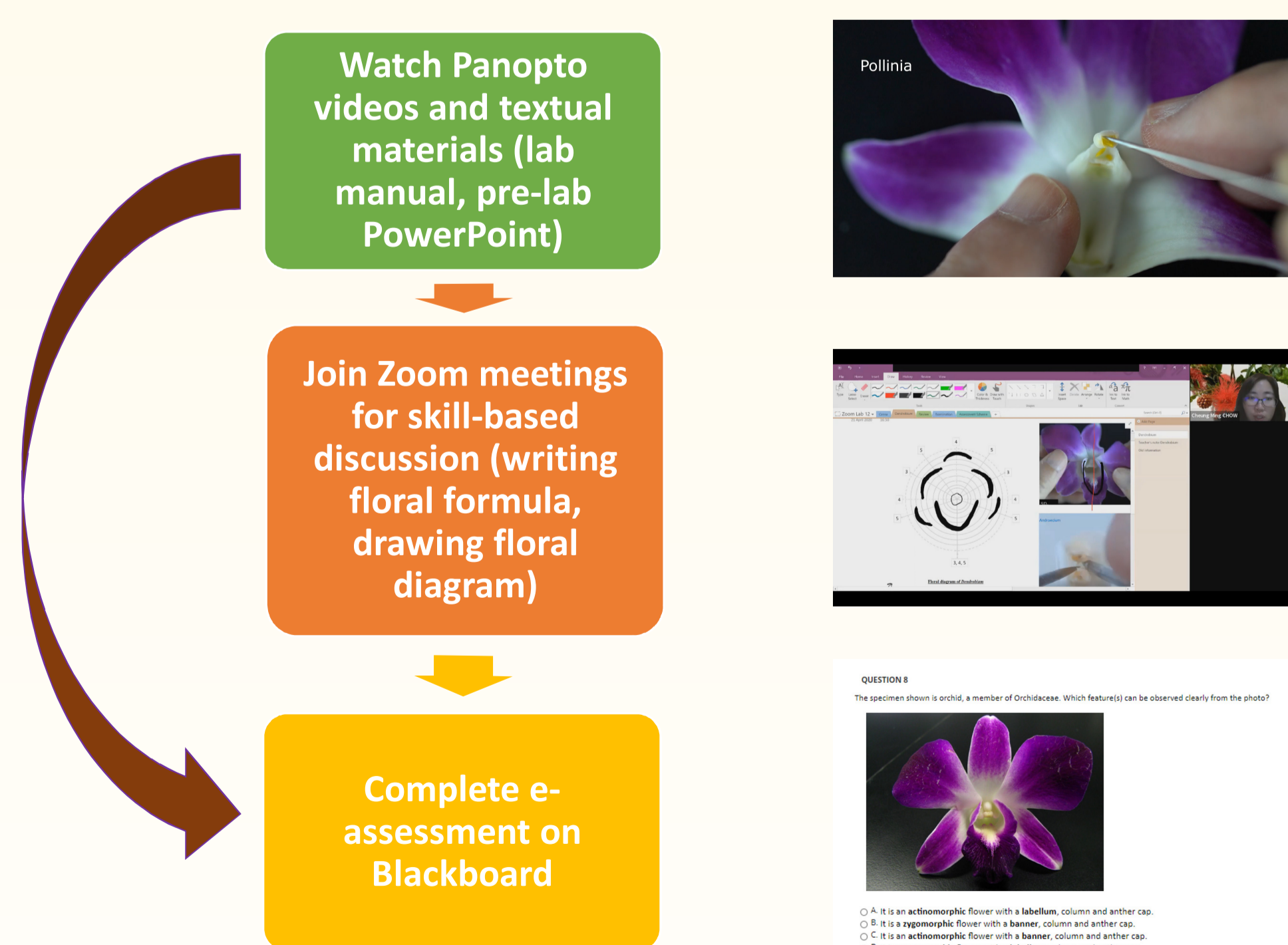
Project implementation

- The project mainly supported the distance learning of BIOL3022 Biodiversity Lab II to substitute the specimen tours and dissection demonstrations.
- It also supported the production of 4 subtitled videos about plant identification and one Zoom session for the virtual campus walk activity of BIOL3570.

Course	No. of students enrolled	No. of videos	Average no. of views per video	No. of Zoom sessions	Average no. of views per Zoom session
BIOL3022	35	29	42	4	44
BIOL3570	53	4		1	

Lab Course:

BIOL3022-Biodiversity Lab II (Lab 10A – Lab 12)



Lecture Course:

BIOL3570-Biology of Vascular Plants (Campus walk activity)



Conclusion and Future prospective

- A total of **33 videos and 5 Zoom sessions** are produced under this project.
 - 29 specimen-based videos and 4 Zoom sessions for 4 lab sessions of BIOL3022
 - 4 videos and one Zoom session for the campus walk activity of BIOL3570
- A **e-user guide** is being produced to document the integration process and experience in video taking for online lab teaching.
 - Expected to be available online to CUHK teachers in August 2020

✓ We have received positive responses from a majority of students and graduate teaching assistants of BIOL3022.

Respondent	No. of responses	Effective in delivering key learning foci		Satisfactory user experience	
		Agree	Strongly agree	Agree	Strongly agree
Students	22	36%	32%	46%	23%
Graduate Assistants	9	78%	22%	67%	33%

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