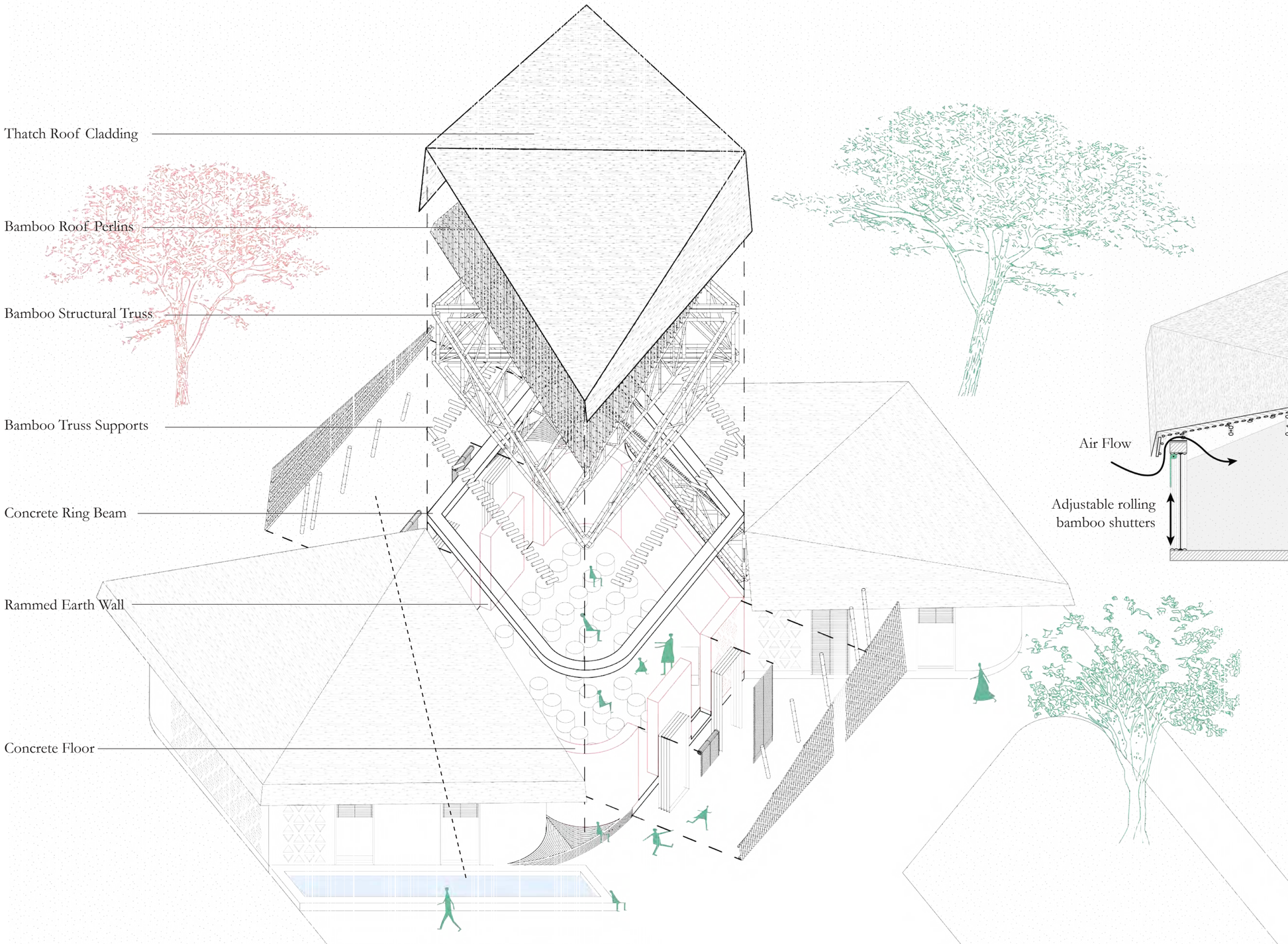
Petals of Ethiopia

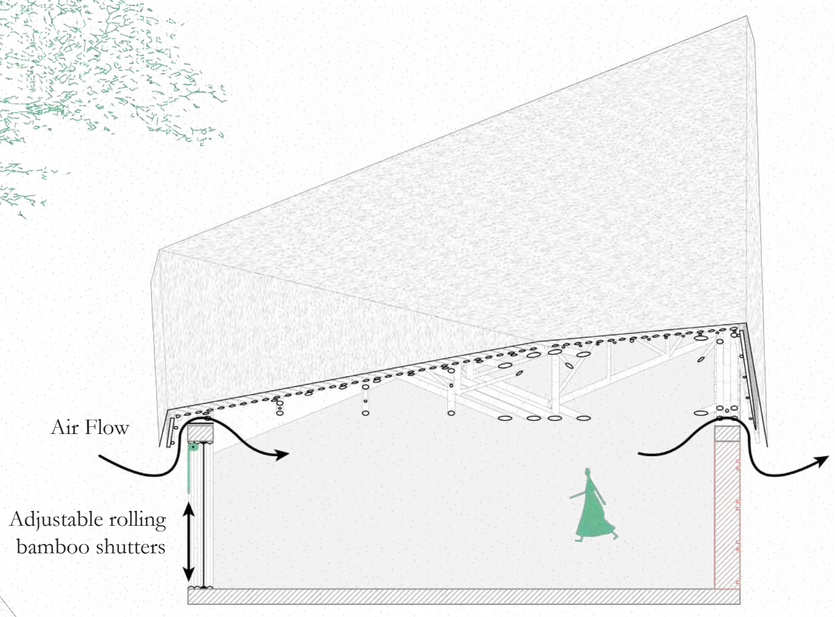
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The basic structure for each module consists of a concrete foundation, rammed-earth perimeter walls, an all-around concrete lintel, bamboo trusses and a thatch roof. Such single-module design allows the builders to refine each time upon the construction process, which unfolds as follows: the concrete foundations are casted on site; the rammed-earth walls are formed from the material accessible in the surroundings and the formwork can even be re-used overtime; the concrete summit beam can be pre-casted and later fixed on top of the walls; lastly, the bamboo trusses can be pre-assembled on-site and subsequently lifted on top of the vertical load-bearing elements. The same roof structure supported by bamboo columns, is used to span the covered courtyard.

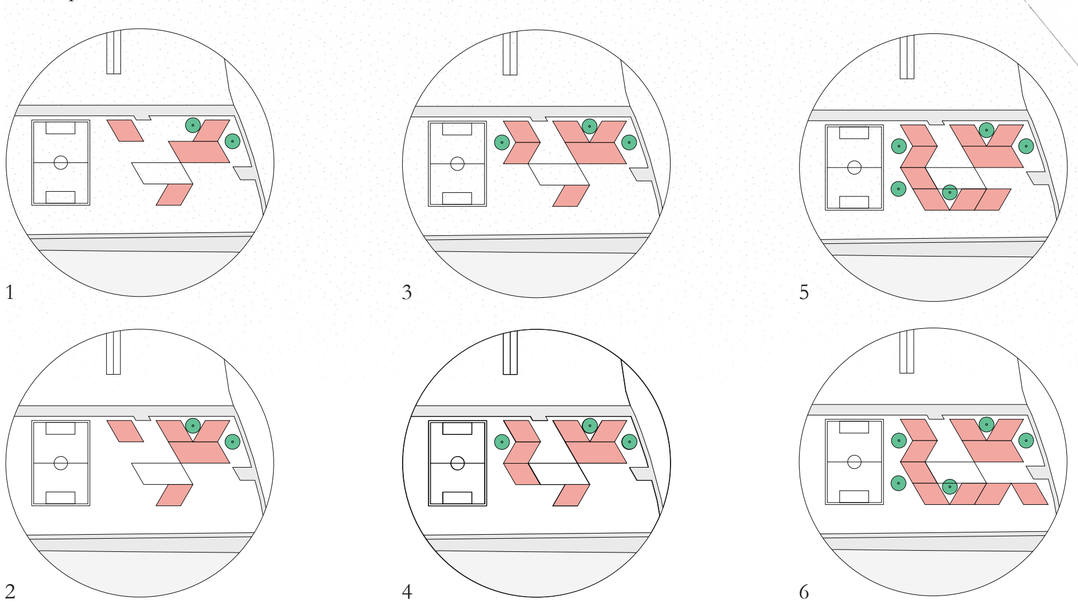
Lastly, to address the climate needs of the users, the rammed-earth walls functions as thermal mass, the roof is provided with ventilation gaps from underneath the overhangs and the openings are provided with rolling shutters to control the direct light and heat load. When it comes to the exterior finishing and decorations, the walls are featured with built-in thatch benches at the intersection points of the modules and a bas-relief carved-out pattern of triangles that becomes a playful and vibrant surface for the children to play and interact with.







Development Phases - Dillu



Plan - Dillu

