

### Team's Recommendations

	<b>Manual input</b> - Enter student ID or other unique field	<b>QR Code</b> - Scan a QR code that is unique to a student using the tablet	<b>Image Selection</b> - Show the photos of the students of the current class and have the students select their image to check-in
<b>Pros</b>	<ul style="list-style-type: none"> <li>Most affordable (no cost)</li> <li>A given in the system</li> <li>Reliable and accurate</li> <li>Very easy to implement</li> </ul>	<ul style="list-style-type: none"> <li>Easy and fast check-in</li> <li>Easy to replace and regenerate if lost</li> <li>Easy for administrator to generate</li> <li>Easy integration</li> </ul>	<ul style="list-style-type: none"> <li>Quick check</li> <li>Requires no hardware</li> <li>Students need not remember a long code, just what they look like</li> </ul>
<b>Cons</b>	<ul style="list-style-type: none"> <li>Not fancy</li> <li>Requires student to remember code</li> <li>Not as fast/quick for entry</li> </ul>	<ul style="list-style-type: none"> <li>Requires a way to read on the hardware (ie tablet)</li> <li>May require real-time software development</li> <li>May require a label printer (and stickers?)</li> </ul>	<ul style="list-style-type: none"> <li>May check the wrong person</li> <li>May need to page through to find oneself</li> <li>You have to be accurate and have integrity</li> </ul>

### Alternative Choices

	<b>Card Reader</b> - Have students swipe an ID card connected to main workshop machine	<b>NFC</b> - Generate a RFID chip for each student have them check-in using their unique chips	<b>Fingerprint Scanner</b> - Scan students' fingerprints to check them in	<b>Facial Recognition</b> - Check-in students by having their picture taken each time
<b>Pros</b>	<ul style="list-style-type: none"> <li>Reliable entry of data</li> <li>Quick and easy to check-in</li> </ul>	<ul style="list-style-type: none"> <li>Physically lightweight, can keep the chip anywhere</li> <li>Actually passive RFID chips are relatively inexpensive</li> </ul>	<ul style="list-style-type: none"> <li>Futuristic</li> <li>Quick and easy</li> <li>No physical thing needed by student</li> </ul>	<ul style="list-style-type: none"> <li>Easy check-in</li> <li>Futuristic</li> <li>Easy to replace if lost</li> </ul>
<b>Cons</b>	<ul style="list-style-type: none"> <li>Would have to carry cards which could be lost</li> <li>Difficult to integrate with software</li> <li>Would need to buy extra blank cards and machine to generate data on cards</li> <li>Would need to buy a card reader either for the tablet or workshop machine</li> </ul>	<ul style="list-style-type: none"> <li>No team member has current knowledge of how to write data to RFID chips</li> <li>Will need an RFID reader that can read passive chips at a distance (may be expensive)</li> <li>Certain tablets do not support NFC</li> </ul>	<ul style="list-style-type: none"> <li>A quality fingerprint scanner can be expensive</li> <li>Need to keep fingerprint scanner clean, risk of it breaking</li> <li>Implementation into software will be difficult</li> </ul>	<ul style="list-style-type: none"> <li>Extremely hard to implement</li> <li>Will require hardware access again</li> <li>People's faces can change over the years</li> <li>Not very reliable/accurate</li> </ul>